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Water Resources Data for New York
Water Year 1971. Part 2
Water Quality Records

(U.S.) Geological Survey, Albany, NY Water Resources Div

1972

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1971

Water Resources Data for New York Water Year 1971

Part 2. Water Quality Records

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-71-2

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Water resources data for the 1971 water year for New York consist of records of discharge and water quality of streams, and water quality of lakes and reservoirs. This report contains water quality for 112 gaging stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in New York.

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New York State Department of Environmental Conservation
New York State Department of Health
County of Dutchess, Conservation of Water Division
County of Nassau, Department of Public Works
County of Suffolk, Department of Environmental Control
County of Suffolk, Water Authority
City of Albany, Department of Water and Water Supply
City of New York, Board of Water Supply
Atomic Energy Commission
Environmental Protection Agency
Delaware River Basin Commission

Water resources records, 1971, for New York are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for New York
   Part 1: Surface Water Records

2. Water Resources Data for New York
   Part 2: Water Quality Records

Copies of this report may be obtained from:

District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Court House
P. O. Box 948
Albany, N. Y. 12201

1973

Page

List of water-quality stations, in downstream order, for which records are published with cross-reference of identification numbers.............................. V-VI
Introduction.. 1
Cooperation... 1
Definition of terms and abbreviations....................... 2
Arrangement of data and identification numbers.............. 7
  Surface-water quality data................................ 7
  Ground-water quality data................................. 8
  Precipitation-quality data................................ 8
Special networks.. 9
Collection and examination of data.......................... 9
  Solutes... 10
  Temperature... 10
  Sediment.. 11
  Aerial thermal infrared radiometry........................ 12
Other available data.. 16
Water-supply papers... 17
Selected references... 18
Water-quality records....................................... 28
  Surface-water... 28
    Stations.. 28
    Partial-record stations................................. 204
    Miscellaneous sites..................................... 210
      Minor element analyses................................ 242
  Ground water.. 244
  Precipitation... 246
Index... 253

ILLUSTRATIONS

Figure 1. Sketch showing well- and spring-location system.................................... 8

2. Aerial thermal infrared radiometry data format.................................... 13

3. Index for water-quality station maps.............. 20

4-10. Location of water-quality stations................ 21-27

TABLES

Page

Table 1. Factors for conversion of chemical constituents in milligrams per liter to milliequivalents per liter.................................. 4

2. Degrees Celsius (°C) to degrees Fahrenheit (°F)... 11

3. Water-supply paper numbers and parts, water years 1950-70......................... 17

4. New York State Water Quality Surveillance Stations for which water samples were analyzed by agencies other than the U.S. Geological Survey, 1971 water year.......... 251

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED WITH A CROSS REFERENCE LIST OF IDENTIFICATION NUMBERS

Letters after station name
designate type of data reported
(c) - chemical
(t) - temperature
(s) - sediment

Abbreviations:
USGS - U.S. Geological Survey
OWDC - Office of Water Data Coordination
EPA - Environmental Protection Agency
WQS - New York State Water Quality Surveillance

	IDENTIFICATION NUMBERS				Page
	USGS	OWDC	EPA	WQS	
NORTH ATLANTIC SLOPE BASINS					
HOUSATONIC RIVER BASIN					
Housatonic River:					
Tenmile River at Webatuck (c)	01199980	61461		16 1001	28
STREAMS ON LONG ISLAND					
Mill Neck Creek at Mill Neck (c)	01303000	19172			29
Carmans River at Yaphank (c)	01305000	19176			30
Massapequa Creek at Massapequa (c)	01309500	19185			31
East Meadow Brook at Freeport (c)	01310500	19187			33
HUDSON RIVER BASIN					
Hudson River:					
Schroon Lake (Schroon River) at Pottersville (c)	01316500	61392		11 P030	35
Loon Lake near Chestertown (c)	01316808	61393		11 P040	36
Friends Lake near Chestertown (c)	01316815	61394		11 P050	37
Brant Lake Outlet at Brant Lake (c)	01316895	61391		11 P020	38
Schroon River at Riverbank (c)	01317000	61395		11 1060	39
Sacandaga River:					
East Branch Sacandaga River at Griffin (c)	01319000	54061		11 2788	40
Sacandaga River at Hadley (c)	01325005	68092		11 1551	42
Hudson River at Corinth (c)	01325420	61400		11 0602	43
Hudson River at Spier Falls (c)	01326400	68091		11 0605	44
Hudson River at Hudson Falls (t)	01327700	54111			46
Hudson River at Fort Edward (c)	01327750	68090		11 0561	47
Batten Kill at Middle Falls (c)	01329640	61398		11 1501	49
Kayaderosseras Creek (head of Fish Creek):					
Glowegee Creek near West Milton (ct)	01329995	65356			51
Glowegee Creek at West Milton (ct)	01330000	54112			53
Kayaderosseras Creek near West Milton (t)	01330500	54062			55
Hudson River at Stillwater (c)	01331095	68088		11 0005	57
Hoosic River near North Pownal, Vt. (c)	01333350	67090	50 1479	11 1432	59
Hoosic River at North Petersburg (c)	01333360	61397		11 1430	61
Hudson River at Mechanicville (t)	01335500	54113			63
Hudson River at Waterford (c)	01335770	61387		11 0001	64
Mohawk River below Delta Dam, near Rome (t)	01336000	54063			66
Mohawk River at Utica (t)	01340000	54114		12 0510	67
Cayadutta Creek at Fonda (c)	01349520	68087		12 1301	68
Mohawk River at Fonda (c)	01349527	68084		12 0305	70
Schoharie Creek at Fort Hunter (c)	01353995	61401		12 1251	72
Mohawk River at Lock 10, at Cranesville (c)	01354160	61402		12 0300	73
Mohawk River at Schenectady (c)	01354490	61382		12 0005	75
Mohawk River at Vischer Ferry Dam (t)	01356000	54115		12 0003	77
Mohawk River at Crescent Dam (c)	01357000	61390		12 0002	78
Hudson River at Green Island (ct)	A 01358000	54065		13 0008	80
Hudson River at Glenmont (c)	01359560	61456		13 0200	82
Hudson River at Coeymans (c)	01359803	61455		13 0180	84
Hudson River at Catskill (c)	01361450	61454		13 0140	86
Esopus Creek at Shandaken (cts)	01362198	54068		13 1128	88
Rondout Creek:					
Wallkill River near Rosendale (c)	01372003	61452		13 2070	92
Rondout Creek at Eddyville (c)	01372005	68074		13 1071	93
Hudson River near Poughkeepsie (c)	B 01372043	61453		13 0103	94
Hudson River below Poughkeepsie (c)	C 01372058	67091	83 1055	13 0010	95
Wappinger Creek near Wappingers Falls (c)	01372500	54071		13 1050	97
Hudson River near Chelsea (c)	01372550	61451		13 0660	99
Hudson River at Beacon (c)	01372575	68075		13 0258	101
Fishkill Creek at Hopewell Junction (t)	01372800	54072			102
Fishkill Creek at Beacon (ct)	D 01373500	61449		13 1040	104
Moodna Creek near New Windsor (c)	01373860	68073		13 1252	107
Hudson River at Bear Mountain (c)	01374085	68081		13 0250	108
Hudson River at Verplanck (c)	01374350	68076		13 0256	109
Hudson River at Piermont (c)	E 01376269	68079		13 0254	111
Hudson River at Yonkers (c)	01376510	68080		13 0251	113
HACKENSACK RIVER BASIN					
Hackensack River at Orangeburg (c)	01376905	61460		15 0001	115
DELAWARE RIVER BASIN					
East Branch Delaware River (head of Delaware River):					
Beaver Kill at Cooks Falls (c)	01420500	54076		14 2108	117
East Branch Delaware River at Fishs Eddy (ct)	01421000	65360		14 1050	119
West Branch Delaware River at Stilesville (t)	01425000	54077			122
Oquaga Creek at Arctic (c)	01425665				124
Oquaga Creek Tributary at Arctic (c)	01425670				125
Oquaga Creek near North Sanford (ct)	01425675	26904			126
West Branch Delaware River at Hale Eddy (ct)	01426500	65359		14 0080	128
Delaware River at Lordville (t)	01427207	65361			131
Delaware River near Callicoon (t)	01427405	65358			132
Delaware River at Skinners Falls (t)	01427705	65362			134
Delaware River above Lackawaxen River near Barryville (t)	01428500	65357			135
Delaware River at Barryville (t)	01432160	65363			137
Delaware River at Port Jervis (cs)	F 01434000	61457		14 0010	138
Neversink River at Port Jervis (c)	01438000	68072		14 1032	141

A - Also assigned - OWDC 54066, WQS 13 0009
B - Also assigned - OWDC 54116
C - Also assigned - OWDC 55088
D - Also assigned - OWDC 54074
E - Also assigned - OWDC 56338
F - Also assigned - OWDC 54078

	IDENTIFICATION NUMBERS				Page
	USGS	OWDC	EPA	WQS	
NORTH ATLANTIC SLOPE BASINS--Continued					
SUSQUEHANNA RIVER BASIN					
Susquehanna River at Unadilla (c)	01500500	19299		06 0140	142
Chenango River:					
Tioughnioga River at Cortland (t)	01509000	54085			144
Susquehanna River at C.F.J. Memorial Bridge at Johnson City (c).	01513107	67096	SUS2		145
Susquehanna River at Johnson City (t)	01513110	54086			146
Tioga River (head of Chemung River):					
Cohocton River:					
Fivemile Creek near Kanona (c)	01528000	54092		05 2098	147
Chemung River at Wellsburg (c)	01530900	67097	SUS1		149
OHIO RIVER BASIN					
Allegheny River (head of Ohio River):					
Conewango Creek at Waterboro (c)	03013000	54096		02 1018	151
ST. LAWRENCE RIVER BASIN					
Lake Erie:					
STREAMS TRIBUTARY TO LAKE ERIE					
Buffalo Creek at Gardenville (c)	04214500	54097		01 1108	153
Lake Ontario:					
STREAMS TRIBUTARY TO LAKE ONTARIO					
Eighteenmile Creek at Lockport (c)	04219735	67098	355601		155
Johnson Creek at Kuckville (c)	04219915		355612		156
Salmon Creek:					
West Creek at Hilton (c)	04220252		355616	03 1007	157
Genesee River at Shongo (c)	04220371		353192		158
Genesee River near Houghton (c)	04222300	67099	353143		159
Black Creek at Churchville (c)	04231000	54100		04 1108	160
Genesee River at Rochester (t)	G 04232000	54101		04 0003	162
Seneca River (head of Oswego River):					
Clyde River:					
Canandaigua Outlet at Phelps (c)	04235060		354416		164
Owasco Outlet below Auburn (c)	04235505		354305		165
Skaneateles Creek at Elbridge (c)	04236970		354417		167
Seneca River (Barge Canal) near Jordan (c)	04237020		354413		168
Seneca River at Baldswinsville (t)	04237500	54102			169
Little Salmon River below Texas (c)	04249062		355409		170
Salmon River below Pulaski (c)	04250504		355905		171
Black River:					
Independendence River at Donnattsburg (t)	04256000	54103			172
Beaver River at Moshier Falls (t)	04257150	54120			173
Black River at Black River (c)	04259500	67092	355101		174
Black River at Huntingtonville (t)	04259980	67093			175
Black River at State Highway 3 at Watertown (c)	N 04260100	61441	11401	08 0005	176
Black River at Watertown (c)	04260500	54104		08 0008	178
ST. LAWRENCE RIVER (MAIN STEM)					
St. Lawrence River at Cape Vincent (c)	04260712	61428		09 0030	180
St. Lawrence River at Alexandria Bay (t)	04260800	54121			181
Oswegatchie River at Gouverneur (c)	04262650	67094	355507		182
Oswegatchie River at Ogdensburg (c)	04263990	61442		09 1300	184
St. Lawrence River at Ogdensburg (c)	04264000	54107		09 0018	185
St. Lawrence River at Cornwall, Ontario-near Massena, N.Y. (t)	04264331	54108			186
Grass River above Massena (c)	04265437			09 1203	187
Grass River below Massena Center (c)	04265452			09 1206	188
Raquette River at Raymondville (c)	04268000	67095			189
Raquette River at Massena Springs (c)	04268230	61443		09 1105	190
St. Regis River:					
Deer River at Brasher Iron Works (c)	04269500	54109		09 2428	191
Lake Champlain (main stem Richelieu River):					
Saranac River above Plattsburgh (c)	04273400	61426		10 1010	193
Ticonderoga Creek at Ticonderoga (c)	04279015	68093		10 1050	194
Lake Champlain (East Bay) near Whitehall (c)	04294402	67087	831056		196
Lake Champlain near Ticonderoga (c)	04294408	67088	831057		198
Lake Champlain near Crown Point (c)	04294410	67089	831058		200
Richelieu River (Lake Champlain) at Rouses Point (c)	04295000	61435		10 1002	202
PRECIPITATION-QUALITY STATIONS					
Long Island:					
at Mineola (c)					246
at Upton (c)					246
Hudson River basin:					
at Rock Hill (c)					247
near Albany (c)					247
at Hinckley (c)					248
Susquehanna River basin:					
near Athens, Pa. (c)					248
Allegheny River basin:					
at Allegany State Park (c)					249
Lake Ontario basin:					
at Mays Point (c)					249
St. Lawrence River basin:					
near Canton (c)					250

G - Also assigned - OWDC 68117
N - Also assigned - OWDC 68239

WATER RESOURCES DATA FOR NEW YORK, 1971

Part 2. Water Quality Records

INTRODUCTION

Water resources data for the 1971 water year for New York include records of data for the chemical and physical characteristics of surface-, ground- and precipitation water. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of R. J. Dingman, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

The Geological Survey has published records of chemical quality, suspended sediment, and water temperatures since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records also have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. These records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreements with the following organizations:

New York State Department of Environmental Conservation, Henry L. Diamond, commissioner; Dwight E. Metzler, deputy commissioner, Environmental Quality
New York State Department of Health, H. S. Ingraham, commissioner
City of New York, Board of Water Supply, V. G. Terenzio, chief engineer
County of Dutchess, D. C. Shoentag, county executive
County of Nassau, Department of Public Works, J. H. Peters, commissioner
County of Suffolk, Department of Environmental Control, J. M. Flynn, commissioner

County of Suffolk, Water Authority, Louis Weinfurt, general manager
City of Albany, Department of Water and Water Supply, W. F. Devane, commissioner
Town of Warwick, J. P. Seekamp, supervisor
Central New York State Parks Commission, Samuel Perry, regional director
Delaware River Basin Commission, J. F. Wright, executive director

Assistance in the form of funds was given by the Atomic Energy Commission and by the Environmental Protection Agency. Three surface-water quality stations were operated from funds appropriated directly to the Geological Survey.

The following organizations and individuals supplied water-temperature records:

The municipalities of Cortland and Watertown, Beaunit Corporation, Chase Bag Company, New York State Electric and Gas Corporation, Niagara Mohawk Power Corporation, Rochester Gas and Electric Corporation, Texaco Incorporated, Westvaco Corporation, Power Authority of the State of New York, New York State Department of Transportation, Corps of Engineers, U.S. Army, and Mr. Douglas F. Manning.

DEFINITION OF TERMS AND ABBREVIATIONS

Definition of terms and abbreviations related to water-quality and hydrologic data, as used in this report are defined as follows:

Acre-foot (ac-ft, AC-FT) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stablizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24-hours. It is equivalent to 86,400 cubic feet, 1.983471 acre-feet, or 646,317 gallons.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds present in a water and varies with water compositions, temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate incubation membrane filter method.

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Daily mean discharge is the mean discharge for one day.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. This discharge is reported instead of the daily mean, when the heading of the discharge column in the tables is "Discharge (CFS)."

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface stream and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per liter ($\mu g/l$, UG/L) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (liter) of solution. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1. Concentration of suspended sediment is also expressed in mg/l, and is based on the weight of sediment per liter of water-sediment mixture.

Table 1.--Factors for conversion of chemical constituents in milligrams per liter to milliequivalents per liter

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})....	0.11119	Iodide (I^{-1})......	0.00788
Ammonia as NH_4^{+1} ...	.05544	Iron (Fe^{+3}).......	.05372
Barium (Ba^{+2})......	.01456	Lead (Pb^{+2}).......	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})....	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})..	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2}).....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})....	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})......	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})......	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})..	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2}).......	.03060

To convert micrograms per liter, multiply by factor and divide by 1,000.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Sediment is solid material that orginates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1971, is called the "1971 water year."

ARRANGEMENT OF DATA AND IDENTIFICATION NUMBERS

Data in this report are divided into three groups: quality of surface water, of ground water, and of precipitation.

Surface-Water Quality Data

Surface-water quality data collected on a regular or continual basis are listed first. These are reported in downstream order along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention; each indention represents one rank. Figures 4-10 show the general location of the listed stations. Data for miscellaneous surface-water sites is placed in downstream order at the end of this section.

As an added means of identification, a number has been assigned for each surface-water location where determinations of water quality have been made. The numbers increase with the standard downstream order of listing gaging stations. The numbering system consists of eight digits; for example, 01330000. The first two digits identify the Part or Major basin used by the Geological Survey for reporting hydrologic data. The remaining six digits represent the position of the location in the standard downstream order listing the stations within each of the Parts. The assigned numbers are in increasing numerical order but are not consecutive. They are selected from the complete 8-digit number scale so that intervening numbers will be available for future assignment to new locations. The identification number for each site in this report is printed to the left of the site name.

The Geological Survey identification numbers are cross-referenced in the list of Water-Quality Stations on pages V-VI, with identification numbers assigned by the Federal Environmental Protection Agency and the New York State Department of Environmental Conservation, Water Quality Surveillance for stations in their networks and by the Office of Water Data Coordination for their catalog of Information on Water Data.

Ground-Water Quality Data

Ground-water quality data are grouped alphabetically by county and by identification number within the county. Identification numbers of wells are developed by using a system based on latitude and longitude. The first part of the well number is the coordinates of the southeast corner of the 1-second quadrangle in which the well is located. If the well site is directly on the dividing line of a quadrangle, the coordinates are those of the intersecting line south of the point on a vertical line or east of the point on a horizontal line. (See fig. 1.) The second part of the number is the sequential number. The first well in the 1-second quadrangle from which a record is obtained is given the number 1. Each subsequent well is numbered in the order records were obtained.

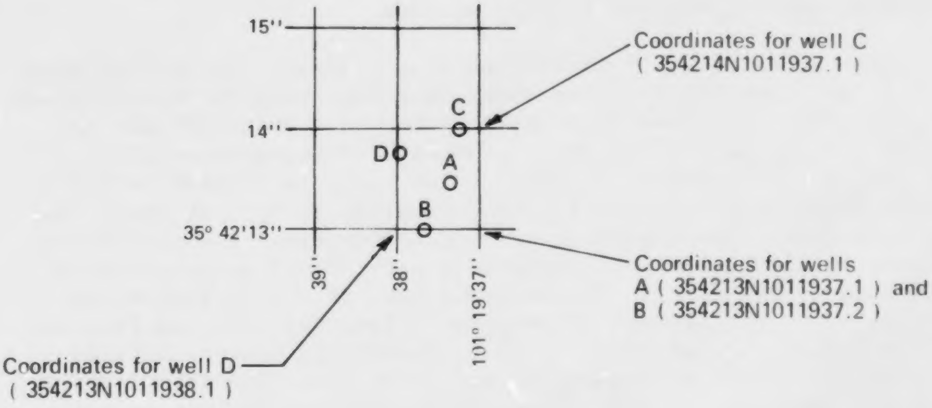

15''
Coordinates for well C
(354214N1011937.1)
C
14''
D
A
B
35° 42'13''
39''
38''
101° 19'37''
Coordinates for wells
A (354213N1011937.1) and
B (354213N1011937.2)
Coordinates for well D
(354213N1011938.1)

Figure 1.--Well-and spring-location system.

Precipitation Quality Data

Chemical quality of precipitation data are reported for eight stations in New York and for one station just over the border in Pennsylvania (fig. 3-10). The arrangement of the stations is according to the downstream order of the basins. Within the basin, the order of reporting is by latitude and longitude.

SPECIAL NETWORKS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimes will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

COLLECTION AND EXAMINATION OF DATA

Water-quality information is presented for chemical quality, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individually dissolved constituents and certain properties or characteristics such as hardness of water, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms.

Many surface-water samples for analyses are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in New York have been released in the report, "Water Resources Data for New York, 1971, Part 1. Surface Water Records." The water discharge reported with analyses in this report, labeled "Discharge (cfs)," is instantaneous water discharge at the time of sampling if the time is reported, otherwise it is the daily mean discharge. Instantaneous water discharge is determined from the stage-discharge relationship at gaging stations or by measurement at the time of sampling.

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Ground-water samples, whose analyses are included in this report, were collected as part of project or basin studies by the U.S. Geological Survey. Additional information on the source of these samples can be obtained from the District office, Albany, N.Y., and will be published in the reports on the studies. Well number, depth of well, date of sampling, and other pertinent data are given in the tables containing the chemical analyses of ground water.

Precipitation samples were collected at or near National Weather Service stations and the quantity of precipitation, when reported, is from their records.

Solutes

The methods of collecting and analyzing water samples for determining the kinds and the concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). Samples, whose results are given in this report, are individual samples that generally were collected by depth integration at one vertical cross section in the stream.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm). In October 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per liter (mg/l). In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements and some pollutants, in micrograms per liter (μg/l) instead of milligrams per liter. (See "Definitions of Terms").

Temperature

Water temperatures are measured at many of the water-quality stations. For daily stations, the water temperatures are measured at about the same time each day so that the data will reflect long-term rather than diurnal variations in water temperature. Most large streams have small diurnal variation in water temperature; small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges. The thermometers used for determining the water temperature were accurate to plus or minus 0.5°C.

At stations equipped with thermographs the records consist of maximum and minimum temperatures for each day.

Since October 1967 water temperatures have been reported in degrees Celsius (centigrade, °C). To convert temperature in degrees Celsius to degrees Fahrenheit. See table 2.

Table 2.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*

°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86
0.5	33	10.5	51	20.5	69	30.5	87
1.0	34	11.0	52	21.0	70	31.0	88
1.5	35	11.5	53	21.5	71	31.5	89
2.0	36	12.0	54	22.0	72	32.0	90
2.5	36	12.5	54	22.5	72	32.5	90
3.0	37	13.0	55	23.0	73	33.0	91
3.5	38	13.5	56	23.5	74	33.5	92
4.0	39	14.0	57	24.0	75	34.0	93
4.5	40	14.5	58	24.5	76	34.5	94
5.0	41	15.0	59	25.0	77	35.0	95
5.5	42	15.5	60	25.5	78	35.5	96
6.0	43	16.0	61	26.0	79	36.0	97
6.5	44	16.5	62	26.5	80	36.5	98
7.0	45	17.0	63	27.0	81	37.0	99
7.5	45	17.5	63	27.5	81	37.5	99
8.0	46	18.0	64	28.0	82	38.0	100
8.5	47	18.5	65	28.5	83	38.5	101
9.0	48	19.0	66	29.0	84	39.0	102
9.5	49	19.5	67	29.5	85	39.5	103

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples are commonly collected at a fixed point in the stream cross section. Periodically, samples are collected at several verticals in the cross section to determine the adjustment coefficient required (if any) to determine the mean concentration in the whole cross section of the stream.

During periods of rapidly changing flow or rapidly changing concentration, samples often are collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, the daily sediment discharge was estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and sediment discharge for other periods of similar water discharge.

Suspended-sediment samples were collected periodically at the Hydrologic Bench-mark Station. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relationships between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

AERIAL THERMAL INFRARED RADIOMETRY (Imagery)

A cooperative program with the New York State Department of Environmental Conservation in 1970 added collection of synoptic, quantitative radiant-temperature data of water surfaces as part of the water-quality surveillance program. In addition to providing basic water-heat data, this program adds space-continuity to the time-continuity of the automatic-monitor network stations. The imagery can also verify the validity of point-sample locations. New York State water bodies that were surveyed include parts of the Lake Ontario shoreline, St. Lawrence, Cayuga Lake, and the Hudson River estuary.

Three bands of infrared-radiance data are presented in a 9-inch photographic film format: (1) calibrated fixed-field radiometer trace, (2) d.c.-coupled calibrated video (imagery) and (3) (variable) isothermal presentation of d.c. video, a.c. (noncalibrated) video, or blank. (See figure 2.) Duplicate positive transparency films may be viewed at the New York District office in Albany. Film negatives are available for photographic print reproductions at the requestor's expense.

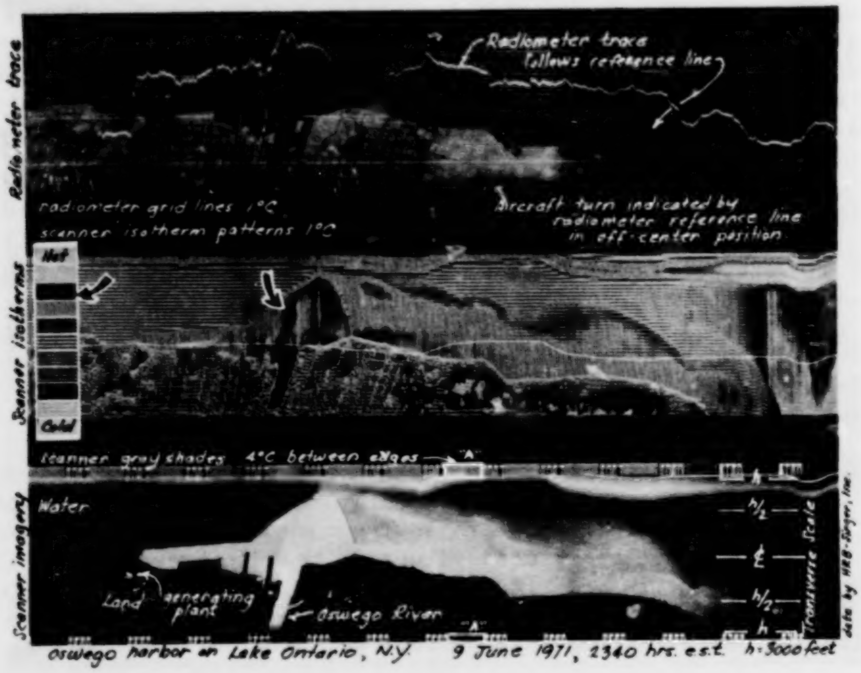

Radiometer trace
Radiometer trace follows reference line
radiometer grid lines 1°C
scanner isotherm patterns 1°C
Aircraft turn indicated by radiometer reference line in off-center position
Scanner isotherms
Hot
Cold
scanner gray shades 4°C between edges
"A"
Scanner imagery
Water
Land
generating plant
Oswego River
h/2
℄
h
Transverse Scale
data by HRB-Singer, Inc.
Oswego harbor on Lake Ontario, N.Y.
9 June 1971, 2340 hrs. e.s.t.
h=3000 feet

Figure 2.--Aerial thermal infrared radiometry data format.

Infrared Theory

Thermal infrared imagery is acquired by a complex electronic process that can be likened to making a photograph of the picture on a television screen, with variables in all steps of the process. Thermal radiation (beyond-the-red wavelength of the electromagnetic spectrum) is received from the terrain by a "supercooled metallic crystalline" detector, which transduces the heat energy into electrical energy. Like the analog of the TV antenna, a particular detector must be selected. The electrical signal is amplified with controls that are analogous to TV contrast (gain) and brightness (level). (Amplification must be kept free of distortion to keep voltage proportional to radiance.) The signal is then converted to light energy by a cathode-ray tube (intensity proportional to voltage) and photographic film is exposed to it. In prints made from the resulting negative, gray shades vary as radiance; and in a "positive" format, white is hot and black is cold. The electronic signal may also be stored on magnetic video tape and/ (or) presented on a TV-like screen as a "real-time" display for data monitoring. Voltages may be measured before the cathode-ray tube and processed to print out patterns of lines for voltage-radiance intervals for the "isothermal presentation".

Imagery is mechanically produced by a line-scanner in which a rotating mirror transversely "scans" the terrain as the forward motion of the aircraft changes the scene longitudinally. Thus, in contrast to the common frame-format of photography, a continuous picture is produced. Because of this mode of image production, the longitudinal scale of the imagery may vary and should be correlated with topographic or hydrographic charts. The transverse scale also varies but is sometimes corrected electronically.

"Radiometry" refers to actual measurements of radiances. This may be accomplished by using direct-current electronics and adding thermal references to the scanner for calibrated imagery or by using a more precise non-scanning (fixed-field) radiometer that views one spot beneath the aircraft and presents an analog trace of radiance data along a reference line.

The synoptic surface radiance of a water body provides data on thermal energy, which, to date, has normally been measured as temperature by thermometers or thermistors in the water. These ground-based measuring stations must be maintained until "radiance" becomes an accepted heat parameter in order to correlate radiance and temperature values. Corrections in radiance for the atmosphere intervening between aircraft and water can be made theoretically and empirically.

Aerial Data Collection Parameters

Actual data collection in New York was contracted to the Rome, N.Y., facility of HRB-Singer, Inc. The equipment used was designed and manufactured by them for the U.S. Air Force, who loaned it to the Geological Survey, and included both a fixed-field radiometer and a line-scanner. The radiometer was fitted with a mercury-doped germanium (Ge:Hg) detector with a 1-milliradian field-of-view (1-foot resolution at 1,000-foot altitude). The scanner used a copper-doped germanium (Ge:Cu) detector with a 2-milliradian field-of-view. It contained two pairs of blackbody thermal reference plates and scanned through a vertical angle of about 100° at 200 scans per second and an aircraft speed of about 120 knots. Radiation wave-lengths viewed are about 8 to 14+ microns. Scanned geometry is uncorrected.

Readable thermal resolution for the radiometer is about 0.1°C. Thermal resolution depends on geometric resolution and ultimately on amplifier-gain settings, because either great thermal detail or great thermal range may be recorded but not simultaneously. Care in operation was taken to ensure that data would not be distorted electronically or photographically. Flying altitudes ranged from 1,000 to 5,000 feet above ground level. The lower altitudes are necessary to increase geometric detail. Data-collection flights at night reduced the problem of reflected or re-emitted solar radiation distorting the radiance values.

Correlative Ground Data

Water-temperature measurements correlative with the over-flights were available from the New York State Department of Environmental Conservation automatic monitoring stations at Verplanck, Glenmont, and Rochester; from specially placed USGS thermographs at Oswego, Sodus Point, and Ithaca; and from USGS observers at Alexandria Bay and Ithaca.

Weather data are available from the National Weather Service. Rochester, Syracuse, Albany, and New York City have stations for which 3-hour observations, including wind data, are published as "Local Climatological Data." Hourly observations on forms MF1-10A, B, or C, "Surface Weather Observations," are also available for these stations and for Massena, Watertown, and Poughkeepsie.

Imagery Schedule

Imagery is available from the following overflights:

Cayuga Lake (parts): November 19, 1970, and April 15, 1971
Lake Ontario shoreline (from Rochester east to Mexico Bay): November 19 and December 10, 1970; April 15 and June 9, 1971
St. Lawrence River (to Canadian border): December 10, 1970 and June 9, 1971
Hudson River Estuary (from Albany to Tarrytown), including tidal studies near Peekskill: November 27-28, 1970; April 23-24 and June 7-8, 1971
Some imagery of parts of the Long Island Sound shoreline on June 7, 1971, is also available.

OTHER AVAILABLE DATA

In addition to most of the data in this report, which represent only those stations for which water samples were analysed by the U.S. Geological Survey, other data are available from WQS (Water Quality Surveillance) of the New York State Department of Environmental Conservation. Their Water Quality Data Library includes prior records for many of the stations in this report, data for additional stations operated by or for WQS, and data contributed by other Federal, State, and local agencies, and private industries. Table 4 is a list of stations operated by or for WQS. Water samples collected at these stations during the 1971 water year were analysed by agencies other than the U.S. Geological Survey.

All data in the Water Quality Data Library are available as computer printouts for the requested individual or groups of stations for individual or groups of parameters. Statistical summaries of the data are also available as computer printouts or in periodic publications. Inquiries for these data should be directed to:

New York State Department of
Environmental Conservation
Water Quality Surveillance
50 Wolf Road
Albany, New York 12201

EPA (Environmental Protection Agency) is another source of water-quality data. Data for several stations operated by the U.S. Geological Survey for this Federal agency are included in this report. However, data prior to that indicated in the "Period of Record" for some stations and data for many other locations are available through the EPA Data Storage and Retrieval system (STORET). Inquiries for New York water-quality data in the EPA system should be directed to:

Environmental Protection Agency
Water Quality Office
26 Federal Plaza
New York, New York 10007

A source of information on the availability of additional water-quality data is the "Catalog of Information on Water Data--Index to Water Quality Section," which can be obtained from:

Office of Water Data Coordination
U.S. Geological Survey
Washington, D.C. 20242

WATER-SUPPLY PAPERS

The table below lists the annual series of water-supply papers that give information of quality of surface waters in New York. Data for the North Atlantic slope basins are given in part 1; for the Ohio River basin, in part 3; and for the St. Lawrence River basin, in part 4.

Table 3.--Water-supply paper numbers and parts, water years 1950-70

Year	Parts 1-4	Year	Parts 1-2	Parts 3-4	Year	Part 1	Part 3	Parts 4-5
1950	1186	1959	1641	1642	1968	2091	a2093	a2094
1951	1197	1960	1741	1742	1969	a2141	a2143	a2144
1952	1250	1961	1881	1882	1970	a2151	a2153	a2154
1953	1290	1962	1941	1942				
1954	1350	1963	1947	1948				
1955	1400	1964	1954	1955				
1956	1450	1965	1961	1962				
1957	1520	1966	1991	1992				
1958	1571	1967	2011	2012				

a In press.

SELECTED REFERENCES

American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater (13th ed.): New York, Am. Public Health Assoc., 874 p.

Benedict, P. C., 1948, Determination of the suspended sediment discharge of streams, Federal Interagency Sedimentation Conference, 1st, Denver, Colo., May 6-8, 1947, Proc.: Washington, D.C., U.S. Bur. Reclamation, p. 55-67.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.

Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

_____, 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 57 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water (2d ed.): U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Lane, E. W., and others, 1947, Report of subcommittee on sediment terminology: Am. Geophys. Union Trans., v. 28, no. 6, p. 936-938.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

SELECTED REFERENCES

U.S. Geological Survey, Office of Water Data Coordination, 1970, Catalog of information on water data: Index to water-quality section, 443 p.

U.S. Geological Survey, 1970, Geological Survey Research 1970, chap. A: U.S. Geol. Survey Prof. Paper 700-A, 426 p.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams: Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

_____1957, The development and calibration of visual accumulation tube: Rept. 11.

_____1957, Some fundamentals of particle size analysis: Rept. 12.

_____1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

_____1961, The single stage sampler for suspended sediment: Rept. 13.

_____1963, Determinations of Fluvial sediment discharge: Rept. 14.

_____1963, A summary of work of the Inter-agency sedimentation project: Rept. S.

Whipple, J. M., and Haynes, R. B., 1971, Management applications for thermal infrared imagery of lake processes, in Third annual earth resources program review, National Aeronautics and Space Administration, Houston, Texas, Dec. 1-3, 1970: Houston, Tex., Natl. Aeronautics and Space Adm., p. 52-1-13.

Woodard, T. H., and Heidel, S. G., 1964, Inventory of published and unpublished chemical analyses of surface waters in the continental United States and Puerto Rico, 1961: U.S. Geol. Survey Water-Supply Paper 1786, 490 p.

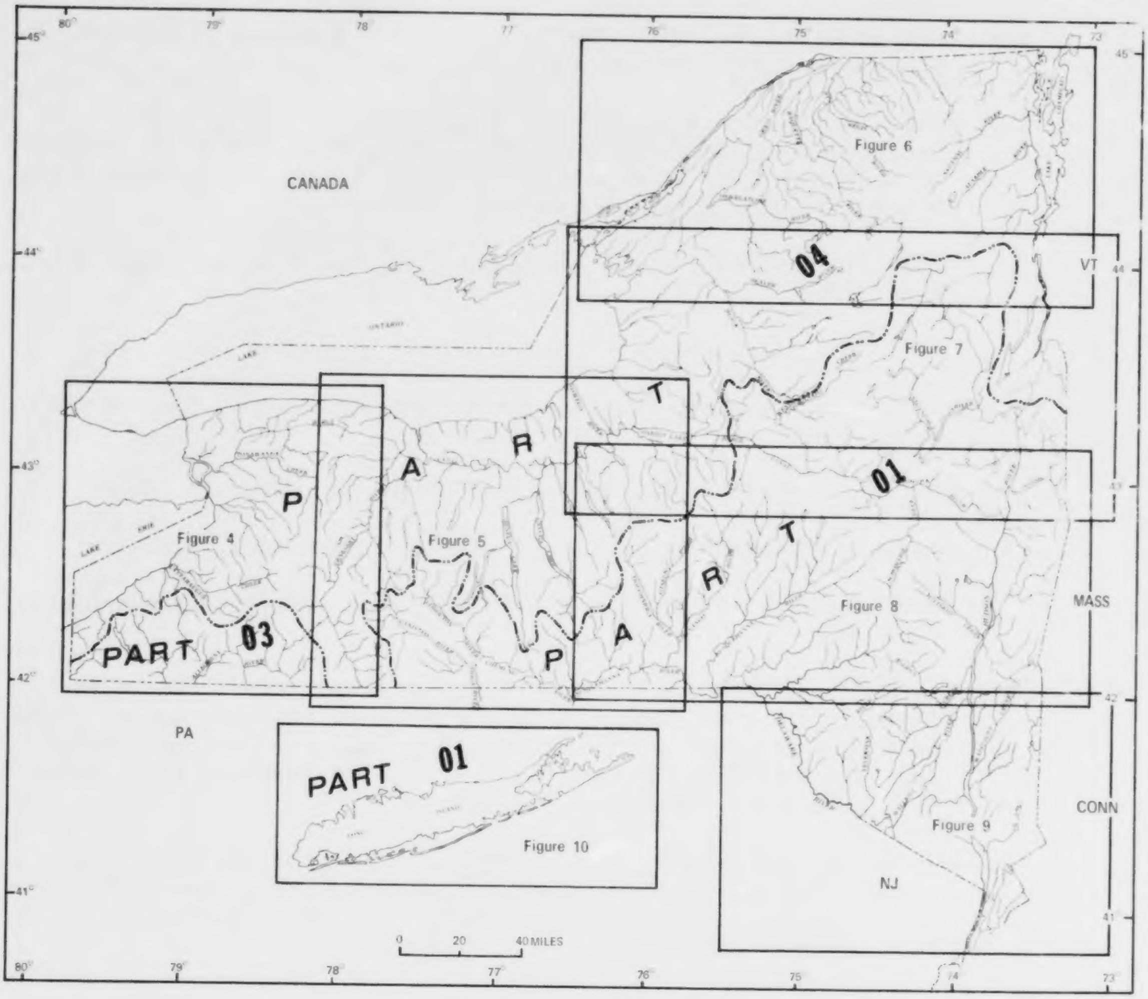
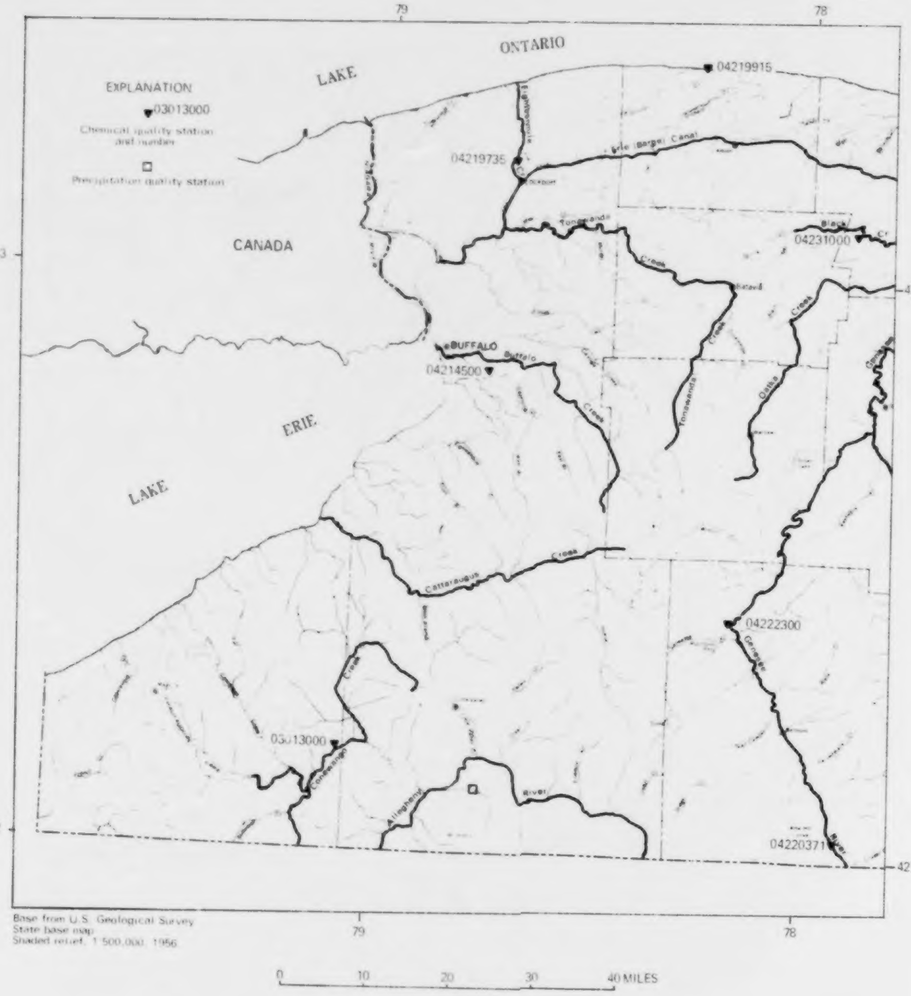
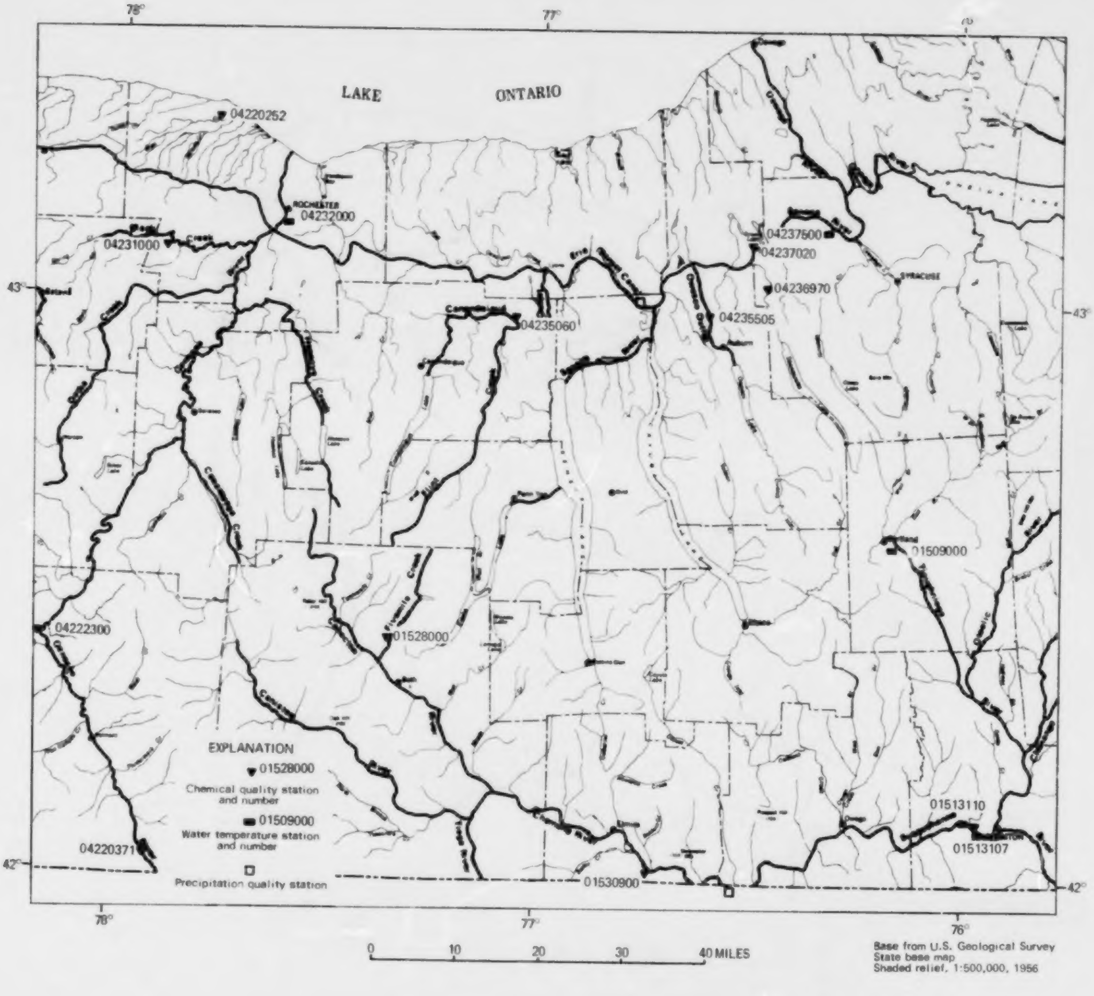

80°
79°
78°
77°
76°
75°
74°
73°
45°
44°
43°
42°
41°
CANADA
PA
NJ
VT
MASS
CONN
Figure 4
Figure 5
Figure 6
Figure 7
Figure 8
Figure 9
Figure 10
PART 03
PART 01
04
01
P
A
R
T
0
20
40 MILES

Figure 3.--Index for water-quality station maps.


79
78
ONTARIO
LAKE
04219915
EXPLANATION
03013000
Chemical quality station and number
Precipitation quality station
04219735
Erie (Barge) Canal
Lockport
Tonawanda
Black
Cr
04231000
43
CANADA
Creek
Batavia
Oatka
Creek
BUFFALO
Buffalo
04214500
Creek
Tonawanda
Creek
ERIE
LAKE
Cattaraugus
Creek
04222300
Genesee
03013000
Conewango
Creek
Allegheny
River
42
04220371
River
42
79
78
0
10
20
30
40 MILES

Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1956

Figure 4.--Location of water-quality stations.


78°
77°
76°
LAKE
ONTARIO
04220252
ROCHESTER
04232000
04231000
43°
04235060
04237500
04237020
SYRACUSE
04236970
04235505
01509000
04222300
01528000
EXPLANATION
01528000
Chemical quality station and number
01509000
Water temperature station and number
Precipitation quality station
04220371
42°
01530900
01513110
01513107
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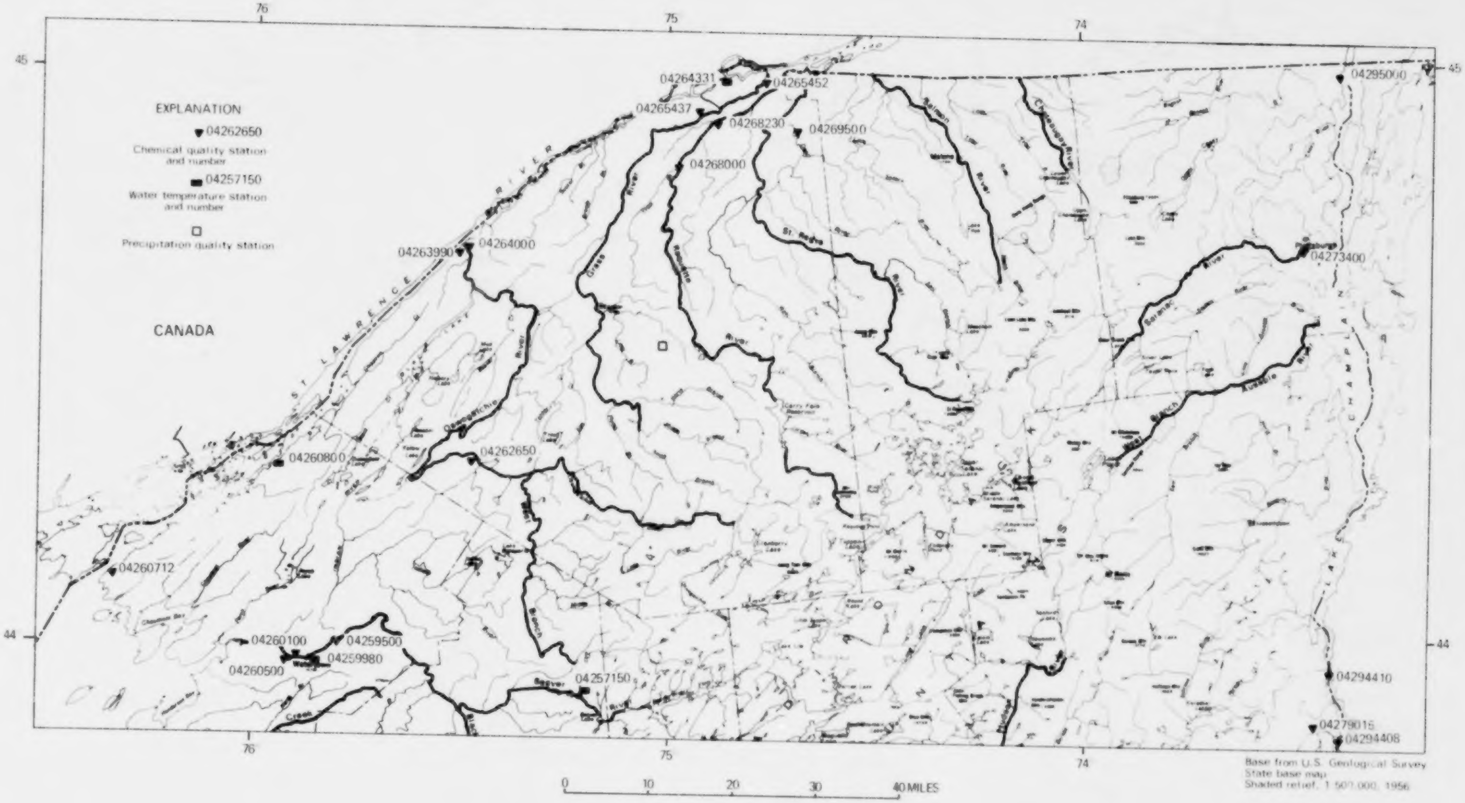
30
40 MILES

Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1956

Figure 5.--Location of water-quality stations.


76
75
74
45
44
EXPLANATION
04262650
Chemical quality station and number
04257150
Water temperature station and number
Precipitation quality station
CANADA
ST. LAWRENCE RIVER
LAKE CHAMPLAIN
04264331
04265452
04265437
04268230
04269500
04268000
04263990
04264000
04295000
04273400
04260800
04262650
04260712
04260100
04259500
04260500
04259980
04257150
04294410
04279015
04294408
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40 MILES
Base from U.S. Geological Survey State base map Shaded relief, 1:500,000, 1956

Figure 6.--Location of water-quality stations.

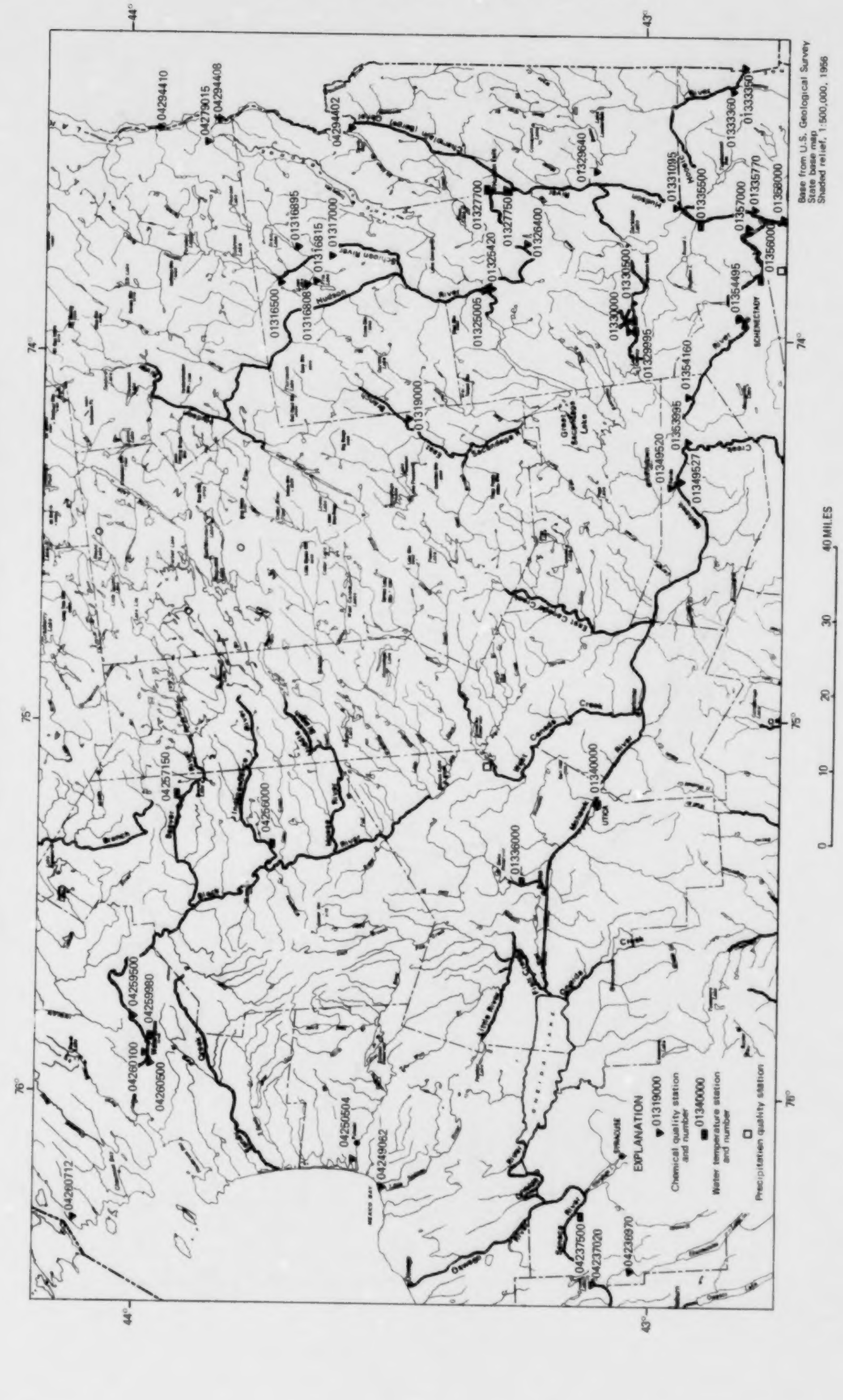
44°
43°
74°
75°
76°
04294410
04279015
04294408
04294402
01329640
01331095
01335500
01333360
01333350
01335770
01357000
01358000
01356000
01327700
01327750
01326400
01326420
01316895
01316815
01317000
01316500
01316808
01325005
01330000
01330500
01329995
01354495
01354160
01319000
01353995
01349520
01349527
04257150
04256000
01340000
01336000
04259500
04259980
04260100
04260500
04260712
04250504
04249062
04237500
04237020
04236970
Hudson
River
SCHENECTADY
UTICA
SYRACUSE
MEXICO BAY
Great Sacandaga Lake
Creek
0 10 20 30 40 MILES
EXPLANATION
▼ 01319000 Chemical quality station and number
■ 01340000 Water temperature station and number
□ Precipitation quality station
Base from U.S. Geological Survey State base map Shaded relief, 1:500,000, 1956

Figure 7.--Location of water-quality stations.

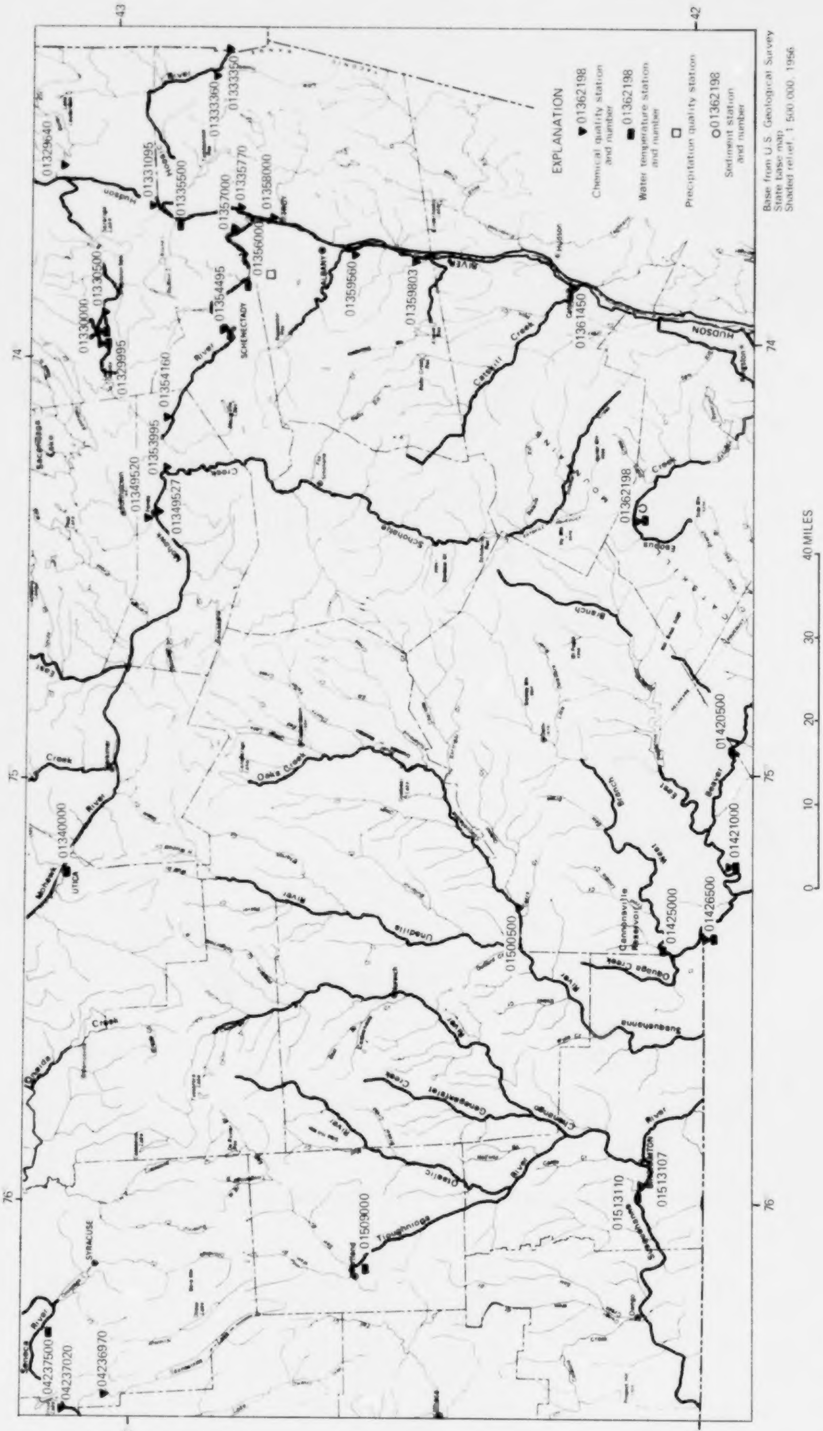
EXPLANATION
▼01362198
Chemical quality station and number
■01362198
Water temperature station and number
□
Precipitation quality station
○01362198
Sediment station and number
Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1956
0
10
20
30
40 MILES
43
42
74
75
76
01329640
01331095
01335500
01333360
01333350
01335770
01357000
01358000
01356000
01354495
01330500
01330000
01329995
01354160
01353995
01349520
01349527
01359560
01359803
01361450
01362198
01420500
01421000
01425000
01426500
01500500
01340000
01513110
01513107
01509000
04237500
04237020
04236970
SCHENECTADY
UTICA
SYRACUSE
HUDSON
River
Mohawk
Creek
Catskill Creek
Schoharie
Oaks Creek
Unadilla
Cannonsville Reservoir
Oquaga Creek
Susquehanna
Chenango
Otselic
Tioughnioga
Oneida
Seneca
Esopus
Branch
Beaver
Sacandaga Lake

Figure 8.--Location of water-quality stations.

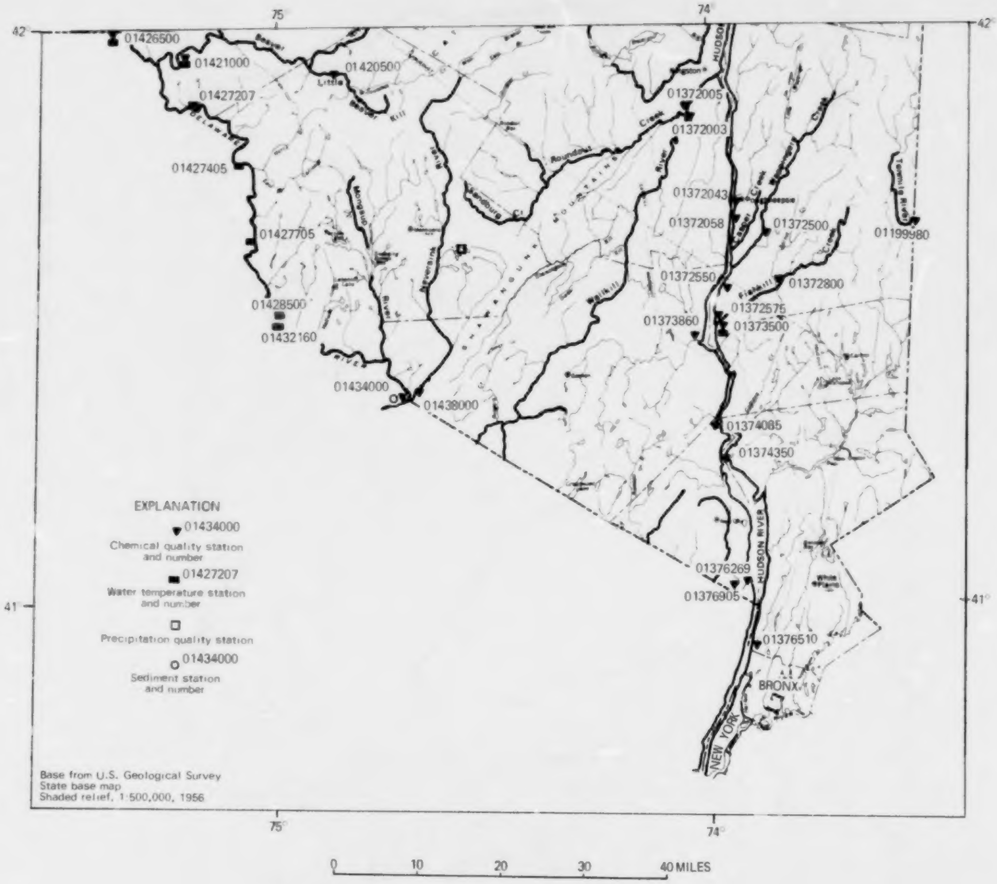
42°
75°
74°
42°
01426500
01421000
01420500
01427207
01372005
01372003
01427405
01372043
01372058
01372500
01199980
01427705
01372550
01372800
01428500
01372575
01373860
01373500
01432160
01434000
01438000
01374085
01374350
EXPLANATION
01434000
Chemical quality station and number
01427207
Water temperature station and number
Precipitation quality station
01434000
Sediment station and number
01376269
01376905
41°
41°
01376510
BRONX
NEW YORK
HUDSON RIVER
HUDSON
Base from U.S. Geological Survey State base map Shaded relief, 1:500,000, 1956
75°
74°
0
10
20
30
40 MILES

Figure 9.--Location of water-quality stations.

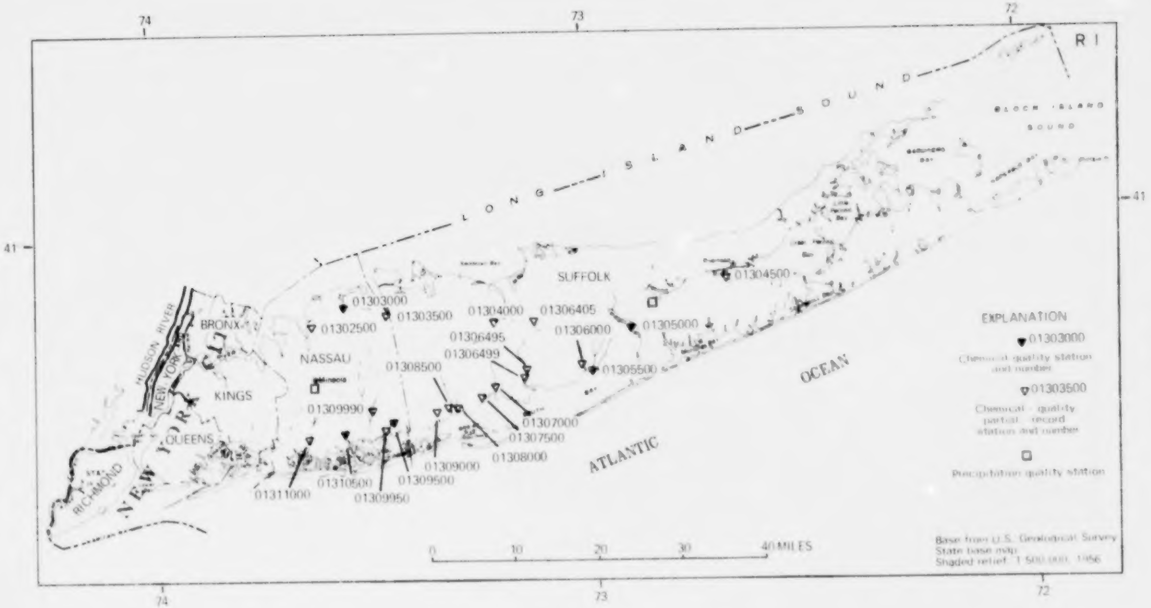
74
73
72
41
R I
L O N G I S L A N D S O U N D
BLOCK ISLAND SOUND
HUDSON RIVER
NEW YORK
BRONX
KINGS
QUEENS
RICHMOND
NEW YORK CITY
NASSAU
SUFFOLK
ATLANTIC
OCEAN
01303000
01303500
01302500
01304000
01306405
01306495
01306499
01306000
01305000
01305500
01304500
01308500
01309990
01307000
01307500
01308000
01309000
01309500
01309950
01310500
01311000
0
10
20
30
40 MILES
EXPLANATION
01303000
Chemical-quality station and number
01303500
Chemical - quality partial - record station and number
Precipitation quality station
Base from U.S. Geological Survey
State base map
Shaded relief 1:500,000 1956

Figure 10.--Location of water-quality stations.

NORTH ATLANTIC SLOPE BASINS

HOUSATONIC RIVER BASIN

01199980 TENMILE RIVER AT WEBATUCK, N.Y.

LOCATION.--Lat 41°39'14", Long 73°32'21", Dutchess County, at highway bridge on county road 200 ft north of State Highway 55, 0.9 mile east of Webatuck and 0.7 mile upstream from gaging station (01200000) near Gaylordsville, Connecticut.

DRAINAGE AREA.--203 sq mi (at gage).

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER TO NOVEMBER 1970

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
05...	1630	3.9	200	0	49	17	8.9	2.8	198	0
NOV.										
30...	1600	5.0	20	0	40	13	5.5	1.8	154	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.										
05...	162	30	16	.0	.24	.11	.17	3.4	.82	245
NOV.										
30...	126	29	10	.0	.20	.10	.03	4.2	.26	185

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.									
05...	229	13	192	30	410	8.3	6	0	.03
NOV.									
30...	185	6	154	28	334	8.0	5	1	.04

01303000 MILL NECK CREEK AT MILL NECK, N.Y.

LOCATION.--Lat 40°53'15", long 73°33'51", Nassau County, at gaging station on right bank at Beaver Dam, 30 ft upstream from Feeks Lane (Cleft Road) bridge in Mill Neck, and 1.5 miles southwest of Bayville.

DRAINAGE AREA.--About 11.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 23...	1045	7.4	8.5	10	4.0	10	1.3	32	0	26
DEC. 23...	--	6.3	9.5	12	5.3	28	2.0	23	0	19
JAN. 21...	--	5.4	12	11	4.2	11	1.9	29	0	24
FEB. 10...	--	9.2	5.4	9.5	2.7	30	2.2	18	0	15
MAR. 29...	1215	6.0	6.2	12	6.1	33	2.4	29	0	24
APR. 22...	1415	5.3	3.2	10	4.4	16	1.5	34	0	28
MAY 21...	1005	6.0	7.0	12	4.2	12	1.4	40	0	33
JULY 15...	1500	5.4	13	11	2.9	13	2.9	20	0	16
AUG. 09...	0955	4.8	11	8.0	3.9	10	1.4	29	0	24
SEP. 24...	1000	5.3	6.7	10	3.9	9.2	1.6	28	0	23

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 23...	16	16	.0	.52	--	.05	.39	2.4	.22	96
DEC. 23...	22	51	.1	.26	--	.05	.22	3.4	.35	168
JAN. 21...	18	18	.0	.20	--	.03	.17	7.6	.23	101
FEB. 10...	12	52	.1	.44	--	.05	.42	4.4	.20	161
MAR. 29...	22	59	.1	.00	--	.00	.10	5.1	.13	186
APR. 22...	17	26	.1	1.2	--	.04	.11	1.7	.29	100
MAY 21...	13	17	.1	2.4	--	.00	.24	6.1	.26	94
JULY 15...	11	19	.1	1.2	1.5	.00	.34	.0	.49	--
AUG. 09...	15	16	.0	—	--	.10	.63	.4	.61	--
SEP. 24...	14	15	.2	1.6	2.0	.03	.21	.9	.28	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 23...	85	2	42	16	154	6.9	16.0	5	7.2	.08
DEC. 23...	145	23	52	33	275	7.0	--	2	--	.02
JAN. 21...	99	0	45	21	165	7.3	1.0	4	--	.03
FEB. 10...	128	21	35	20	247	7.1	3.0	11	9.0	.06
MAR. 29...	160	42	55	31	298	7.0	9.0	8	10.0	.04
APR. 22...	98	25	43	15	181	7.6	14.0	5	12.6	.04
MAY 21...	95	7	47	14	153	7.3	19.0	6	7.8	.04
JULY 15...	85	--	39	23	148	7.7	--	--	--	.06
AUG. 09...	81	--	36	12	136	6.8	27.0	--	4.3	.05
SEP. 24...	77	--	41	18	136	6.6	18.0	--	7.5	.04

01305000 CARMANS RIVER AT YAPHANK, N.Y.

LOCATION.--Lat 40°49'49", long 72°54'24", Suffolk County, at gaging station on left bank 50 ft upstream from Long Island Railroad bridge, 0.2 mile northeast of Yaphank Station, and 0.5 mile southeast of Yaphank.

DRAINAGE AREA.--About 71 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT.											
28...	1400	17	11	400	90	8.1	2.4	5.0	.9	18	0
NOV.											
24...	--	17	12	170	110	7.0	2.3	6.0	.8	17	0
DEC.											
15...	--	16	12	320	100	8.0	2.3	5.9	.7	19	0
JAN.											
21...	--	16	12	290	160	8.0	2.6	6.6	1.3	20	0
MAR.											
30...	1450	21	9.5	680	120	7.0	2.8	6.3	.9	20	0
APR.											
22...	1050	19	8.7	470	140	7.0	2.4	6.3	.9	22	0
MAY											
25...	0900	18	9.8	770	200	7.5	2.5	6.2	.9	22	0
JULY											
15...	1300	15	9.6	560	100	8.7	2.4	6.1	.9	20	0
AUG.											
05...	1200	16	9.0	480	110	6.5	2.6	7.0	.9	21	0
SEP.											
28...	1230	13	8.7	470	160	7.0	2.5	7.1	.9	20	0

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS- PHORUS (PO4) (MG/L)	PHOS- PHATE (PO4) (MG/L)
OCT.											
28...	15	10	11	.0	.26	--	.02	.16	3.4	.06	--
NOV.											
24...	14	11	11	.0	.90	--	.03	.13	2.4	.72	--
DEC.											
15...	16	10	12	.0	.42	--	.02	.06	2.9	.20	--
JAN.											
21...	16	11	11	.1	.36	--	.02	.14	4.8	.36	--
MAR.											
30...	16	11	8.7	.0	.27	--	.02	.10	4.7	.06	--
APR.											
22...	18	10	9.5	.1	.57	--	.02	.05	3.2	.07	--
MAY											
25...	18	10	10	.0	.38	--	.04	.25	2.6	.06	--
JULY											
15...	16	11	9.2	.1	.27	.82	.03	.18	1.8	.09	.09
AUG.											
05...	17	9.8	8.5	.0	--	--	.03	.15	1.8	.31	.31
SEP.											
28...	16	10	10	.0	.35	.91	.00	.08	2.2	.06	.04

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	LOSS ON IGNI- TION (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPECI- FIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPE- RATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT.											
28...	73	62	5	30	15	98	6.7	12.0	6	10.2	.06
NOV.											
24...	64	62	19	27	13	100	7.2	--	3	--	.02
DEC.											
15...	72	63	7	30	14	98	7.2	--	0	--	.00
JAN.											
21...	79	68	18	31	15	106	7.1	--	2	8.6	.02
MAR.											
30...	78	61	26	29	13	98	7.0	11.5	9	10.4	.03
APR.											
22...	58	60	20	27	9	99	7.2	14.0	1	12.4	.02
MAY											
25...	66	61	6	29	11	97	6.8	16.0	6	7.4	.01
JULY											
15...	--	60	--	32	16	92	7.1	--	--	--	.02
AUG.											
05...	--	56	--	26	9	92	7.0	22.0	--	8.6	.03
SEP.											
28...	--	58	--	28	11	98	6.8	17.0	--	9.8	.02

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, N.Y.

LOCATION.--Lat 40°41'20", long 73°27'19", Nassau County, at gaging station on left bank 350 ft west of Garfield Street at Lake Shore Drive, Massapequa, 0.2 mile north of Massapequa Park, and 3,000 ft upstream from Clark Avenue Bridge and head of Massapequa Pond of Brooklyn water-supply system.

DRAINAGE AREA.--About 38 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV.											
03...	1100	3.7	9.0	540	0	17	4.1	23	4.0	24	0
25...	--	5.8	9.0	100	1600	19	4.0	24	4.6	11	0
DEC.											
23...	--	5.4	8.8	240	1600	20	4.0	36	5.2	12	0
JAN.											
20...	--	4.6	9.4	180	1500	19	4.5	28	5.4	10	0
FEB.											
11...	--	6.7	8.8	380	1500	19	4.0	28	5.4	14	0
MAR.											
30...	1050	6.7	8.4	360	1200	20	4.7	26	5.6	38	0
APR.											
19...	1500	6.7	7.9	630	940	19	4.3	26	5.5	37	0
MAY											
19...	0955	6.7	6.8	730	1300	21	4.4	26	5.3	16	0
JULY											
15...	1100	3.7	7.4	220	330	20	4.6	25	5.2	40	0
AUG.											
09...	1245	3.4	5.0	140	120	18	4.6	26	5.2	22	0
SEP.											
24...	1150	3.4	7.4	230	960	19	4.4	26	5.8	23	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
NOV.											
03...	20	42	28	.1	.20	--	.14	.53	26	.24	202
25...	9	43	30	.0	.18	--	.00	.01	22	.16	228
DEC.											
23...	10	45	46	.0	.25	--	.09	3.7	19	.32	253
JAN.											
20...	8	46	33	.1	.99	--	.06	4.1	44	.14	215
FEB.											
11...	11	42	45	.0	.00	--	.12	3.8	27	.05	216
MAR.											
30...	31	47	33	.0	.00	--	.10	3.6	31	.07	206
APR.											
19...	30	46	29	.1	.59	--	.13	2.8	27	.10	183
MAY											
19...	13	42	29	.1	.26	--	.17	3.2	43	.07	203
JULY											
15...	33	49	27	.1	.46	7.6	.46	2.7	22	.03	--
AUG.											
09...	18	44	27	.3	—	--	.99	.71	33	.06	--
SEP.											
24...	19	41	29	.5	.20	8.1	.23	2.8	25	.09	--

CONTINUED NEXT PAGE

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV.										
03...	166	27	60	40	298	6.3	--	5	--	.45
25...	161	26	64	55	288	6.9	--	2	--	.27
DEC.										
23...	194	65	66	56	377	6.3	--	4	--	.36
JAN.										
20...	200	7	66	58	330	6.4	--	3	8.0	.35
FEB.										
11...	190	31	64	52	316	7.1	--	5	--	.06
MAR.										
30...	198	39	69	38	328	6.6	--	12	--	.38
APR.										
19...	187	32	65	35	316	6.9	22.0	3	16.6	.40
MAY										
19...	189	43	71	57	302	6.0	17.0	2	12.5	.32
JULY										
15...	183	--	69	36	297	7.1	--	--	--	.37
AUG.										
09...	176	--	64	66	292	6.6	25.0	--	9.5	.33
SEP.										
24...	173	--	66	67	290	6.4	18.5	--	9.3	.36

01310500 EAST MEADOW BROOK AT FREEPORT, N.Y.

LOCATION.--Lat 40°39'56", long 73°34'13", Nassau County, at gaging station on right bank in Freeport, 24 ft upstream from bridge on Hempstead-Babylon Turnpike and 400 ft west of Meadowbrook Parkway.

DRAINAGE AREA.--About 31 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

REMARKS.--Miscellaneous chemical analyses 1966 to 1970 water years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV.											
03...	1315	1.4	6.4	380	420	18	3.6	38	4.1	28	0
25...	--	2.1	7.1	80	710	19	3.4	33	3.6	20	0
DEC.											
22...	--	2.6	6.6	180	700	19	3.3	48	3.5	19	0
JAN.											
20...	--	2.9	7.7	300	1000	23	4.4	86	4.8	22	0
FEB.											
11...	--	7.7	6.6	460	730	18	3.5	62	4.1	22	0
MAR.											
22...	--	6.0	6.1	490	830	18	3.8	48	4.0	33	0
APR.											
20...	1350	4.4	8.5	260	1600	22	4.1	24	5.1	30	0
MAY											
18...	1005	7.7	8.5	400	1500	22	4.1	25	4.8	10	0
JULY											
15...	0930	1.9	9.6	660	1800	26	4.4	25	7.0	33	0
AUG.											
18...	1130	.16	5.1	340	830	20	4.3	44	5.4	33	0
SEP.											
24...	1315	1.4	6.3	400	640	18	4.2	56	4.5	34	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
NOV.											
03...	23	39	56	.1	.61	--	.15	2.9	14	.12	213
25...	16	33	65	.1	.00	--	1.0	.00	10	.07	179
DEC.											
22...	16	35	74	.0	1.3	--	12	1.5	7.8	.10	225
JAN.											
20...	18	44	132	.1	.35	--	.07	1.9	11	.63	360
FEB.											
11...	18	34	90	.0	.45	--	.11	1.4	13	.13	269
MAR.											
22...	27	35	74	.1	.64	--	.08	.10	14	.10	245
APR.											
20...	25	55	27	.1	.07	--	.16	3.7	31	.04	194
MAY											
18...	8	51	28	.1	.08	--	.21	3.6	43	.04	201
JULY											
15...	27	63	27	.1	.01	15	.16	4.6	49	.03	--
AUG.											
18...	27	39	68	.1	--	--	--	--	12	.15	--
SEP.											
24...	28	36	82	.2	.47	3.8	.36	.97	11	.06	--

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01310500 EAST MEADOW BROOK AT FREEPORT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
NOV.										
03...	192	11	60	37	362	6.6	17.0	0	8.2	.31
25...	184	18	62	45	316	7.3	--	2	--	.14
DEC.										
22...	208	21	61	46	402	6.9	--	0	--	.15
JAN.										
20...	327	5	76	57	626	6.6	--	2	11.0	.16
FEB.										
11...	244	9	59	41	457	6.7	4.0	3	--	.15
MAR.										
22...	220	49	61	34	398	6.8	9.0	3	--	.16
APR.										
20...	196	39	72	47	335	6.6	19.5	1	13.2	.29
MAY										
18...	195	15	72	64	310	5.7	18.0	2	6.2	.24
JULY										
15...	232	--	83	56	375	6.9	--	--	--	.35
AUG.										
18...	215	--	68	41	374	6.9	20.0	--	4.9	.30
SEP.										
24...	237	--	62	34	433	6.7	21.0	--	4.9	.16

01316500 SCHROON LAKE AT POTTERSVILLE, N.Y.

LOCATION.--Lat 43°43'40", Long 73°48'40", Warren County, at outlet at bridge on River Road, 0.8 mile upstream from Trout Brook and 0.8 mile east of Pottersville.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 15...	1355	4.4	20	0	7.0	.9	1.5	.1	16	0
MAY 13...	1400	5.8	20	0	6.0	1.0	1.6	.1	15	0

DATE	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT. 15...	13	8.0	2.3	.1	.26	.01	.12	.2	.02	38
MAY 13...	12	8.0	2.5	.0	.21	.01	.03	.7	.02	--

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 15...	33	8	21	8	53	7.2	11	6	.00
MAY 13...	33	--	19	7	52	6.8	--	8	.01

01316808 LOON LAKE NEAR CHESTERTOWN, N.Y.

LOCATION.--Lat 43°44'40", Long 73°50'20", Warren County, at dam, at outlet of lake, at U.S. Highway 9 and State Highway 8, and 1.6 miles northwest of Chestertown.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Enviornmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 15...	1445	3.1	50	10	6.9	1.0	2.8	.2	22	0
MAY 13...	1445	5.2	30	0	7.0	1.0	2.8	.2	17	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 15...	18	7.0	3.7	.0	.13	.01	.14	.2	.04	41
MAY 13...	14	7.5	4.2	.0	.13	.01	.05	.4	.02	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 15...	36	10	21	3	63	7.3	7	8	.01
MAY 13...	36	--	21	8	60	6.8	--	9	.01

01316815 FRIENDS LAKE NEAR CHESTERTOWN, N.Y.

LOCATION.--Lat 43°38'12", Long 73°50'25", Warren County, on east side of lake, 0.2 mile south of outlet and 2.0 miles southwest of Chestertown.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT. 15...	1525	2.5	20	0	6.1	1.0	1.4	.2	20	0
MAY 13...	1530	3.6	10	0	7.0	1.1	1.4	.3	18	0

DATE	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS- PHORUS (PO4) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT. 15...	16	6.5	1.4	.1	.07	.01	.09	.1	.02	34
MAY 13...	15	7.7	1.7	.0	.42	.01	.08	.2	.02	--

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	LOSS ON IGNI- TION (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT. 15...	29	6	19	3	52	7.2	5	6	.00
MAY 13...	32	--	22	7	52	6.9	--	9	.01

01316895 BRANT LAKE OUTLET AT BRANT LAKE, N.Y.

LOCATION.--Lat 43°41'10", Long 73°44'30", Warren County, at bridge on County Highway 26 and 0.1 mile northeast of State Highway 8 in Brant Lake.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
15...	1305	1.9	10	0	10	1.3	2.1	.3	28	0
MAY										
13...	1310	3.3	10	0	11	1.3	1.9	.3	22	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.										
15...	23	9.5	3.7	.1	.30	.01	.18	.1	.02	48
MAY										
13...	18	9.0	3.7	.0	.28	.01	.05	.4	.03	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.									
15...	44	10	30	7	81	7.2	6	8	.01
MAY									
13...	42	--	32	15	73	7.1	--	10	.00

01317000 SCHROON RIVER AT RIVERBANK, N.Y.

LOCATION.--Lat 43°36'34", Long 73°44'17", Warren County, at former gaging station, at highway bridge, at Riverbank, 0.6 mile upstream from Alder Brook, 6.4 miles downstream from dam at Starbuckville, and 11.8 miles downstream from Schroon Lake.

DRAINAGE AREA.--527 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
DEC. 18...	1240	580	5.8	40	0	8.6	1.1	1.9	.2	20	0
APR. 14...	1235	--	6.1	60	0	7.2	.9	1.9	.1	15	0
JUNE 09...	1345	622	5.3	60	0	8.2	1.1	1.9	.5	18	0
AUG. 31...	--	--	5.1	80	0	7.5	1.0	1.8	.2	18	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
DEC. 18...	16	8.5	3.6	.0	.49	--	.08	.22	.7	.02
APR. 14...	12	10	2.6	.0	.99	--	.01	.16	.9	.05
JUNE 09...	15	9.2	3.1	.0	.19	--	.01	.08	.6	.01
AUG. 31...	15	7.9	2.3	.0	.33	.45	.01	.12	.1	.06

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC. 18...	38	41	7	26	10	61	7.2	16	17	.02
APR. 14...	50	38	10	21	9	59	7.0	18	11	.02
JUNE 09...	--	39	--	25	10	59	7.2	--	25	.02
AUG. 31...	--	35	--	23	8	56	7.1	--	14	.02

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.

LOCATION.--Lat 43°28'25", long 74°13'25", Hamilton County, at gaging station 300 ft upstream from bridge at Griffin, 2 miles downstream from Georgia Creek, 3 miles upstream from mouth and 7 miles upstream from Wells.

DRAINAGE AREA.--114 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
21...	1315	85	6.8	90	0	5.5	1.2	1.7	.2	10	0	8
NOV.												
20...	0950	274	6.8	70	0	5.6	.6	.8	.1	8	0	7
DEC.												
22...	1150	79	7.9	120	0	6.0	1.0	1.8	.2	10	0	8
JAN.												
21...	1115	33	9.1	180	0	6.8	1.1	2.0	.3	12	0	10
FEB.												
16...	1100	E350	6.8	70	0	5.2	.8	1.3	.3	6	0	5
MAR.												
22...	1405	E130	7.6	60	0	6.0	.9	1.7	.2	8	0	7
APR.												
21...	1215	1610	5.2	30	0	4.0	.5	.9	.1	5	0	4
MAY												
19...	1030	362	4.3	40	0	4.0	.7	1.0	.2	3	0	2
JUNE												
17...	0950	24	3.9	40	0	5.5	1.0	2.1	.5	15	0	12
JULY												
21...	1045	41	5.7	250	0	7.0	1.1	1.9	.6	12	0	10
AUG.												
25...	0950	16	5.5	270	0	6.0	1.2	1.7	.5	17	0	14
SEP.												
23...	1100	209	6.1	230	0	5.5	.9	1.7	.2	9	0	7

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT.												
21...	12	1.1	.1	.07	--	.01	.16	.3	.01	48	34	18
NOV.												
20...	11	1.0	.1	.00	--	.02	.06	1.0	.03	42	30	12
DEC.												
22...	11	2.7	.0	.18	--	.01	.06	1.4	.02	40	37	25
JAN.												
21...	12	4.0	.0	.44	--	.02	.28	1.5	.02	35	43	3
FEB.												
16...	11	2.0	.0	.29	--	.02	.11	3.0	.01	35	34	2
MAR.												
22...	10	2.8	.0	.21	--	.01	.07	1.9	.00	24	35	20
APR.												
21...	8.6	1.0	.0	.31	--	.01	.04	2.4	.04	32	25	12
MAY												
19...	8.3	1.1	.0	.17	--	.01	.05	1.8	.03	--	23	--
JUNE												
17...	7.6	2.7	.0	.72	--	.02	.08	.1	.01	--	31	--
JULY												
21...	10	2.0	.0	.40	.76	.13	.31	.3	.06	--	35	--
AUG.												
25...	7.8	3.2	.0	.18	.31	.02	.09	.2	.03	--	35	--
SEP.												
23...	11	1.2	.0	.51	.59	.01	.07	.1	.00	--	32	--

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 21...	18	10	51	6.9	6.5	24	--	10	--	--	.02
NOV. 20...	16	9	42	6.6	4.0	18	--	5	--	--	.02
DEC. 22...	19	11	51	6.7	.0	9	--	7	--	--	.02
JAN. 21...	21	12	59	6.9	.0	15	13.8	3	--	--	.02
FEB. 16...	16	11	48	6.4	.0	16	--	7	--	--	.02
MAR. 22...	18	12	48	6.6	.0	13	--	4	--	--	.03
APR. 21...	12	8	35	6.4	1.0	19	--	14	--	--	.02
MAY 19...	12	10	36	6.8	14.0	--	--	8	--	--	.03
JUNE 17...	17	6	51	7.0	20.5	--	--	11	--	--	.02
JULY 21...	22	12	52	7.0	18.0	--	--	25	--	--	.04
AUG. 25...	20	6	55	7.0	14.0	--	7.3	7	20	450	.03
SEP. 23...	17	10	40	6.8	12.0	--	--	14	<1	2100	.04

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAR. 22...	0	20	70	8	0	<.5

01325005 SACANDAGA RIVER AT HADLEY, N.Y.

LOCATION.--Lat43°18'50", Long 73°50'45", Saratoga County, at bridge on Corinth Road in Hadley, 0.2 mile upstream from mouth and 1.3 miles downstream from gaging station (01325000) near Hadley.

DRAINAGE AREA.--1,055 sq mi (at gage).

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
DEC. 18...	1350	E3050	2.3	20	0	5.5	.9	1.4	.2	13	0
APR. 14...	1335	E16	7.8	30	170	7.0	1.6	2.8	.4	18	0
JUNE 09...	1440	E1530	3.6	30	0	4.8	1.0	1.4	.5	9	0
AUG. 31...	1415	E2040	3.9	40	0	5.0	.9	1.3	.3	12	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
DEC. 18...	11	8.0	2.7	.0	.14	--	.05	.14	.5	.04
APR. 14...	15	9.1	5.0	.0	.18	--	.02	.36	.8	.02
JUNE 09...	7	8.3	1.5	.0	.19	--	.01	.26	2.0	.01
AUG. 31...	10	6.2	1.1	.0	.19	.51	.02	.12	.9	.03

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
DEC. 18...	24	28	3	14	3	46	6.9	10	8	.06
APR. 14...	60	44	14	24	9	70	7.2	16	6	.02
JUNE 09...	--	28	--	16	9	43	6.8	--	6	.06
AUG. 31...	--	26	--	16	6	43	6.9	--	5	.02

01325420 HUDSON RIVER AT CORINTH, N.Y.

LOCATION.--Lat 43°14'55", Long 73°50'06", Saratoga County, at bridge on River Street, in Corinth, 0.2 mile downstream from Sturdevant Creek, and 2.0 miles downstream from Barber Brook.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
27...	1400	E4570	5.1	50	0	6.0	.9	1.2	.3	12	0
DEC.											
02...	1300	E5500	5.8	60	0	6.0	1.0	1.5	.2	14	0
JAN.											
06...	1325	E4700	5.0	60	0	6.2	1.0	1.6	.2	15	0
FEB.											
01...	1435	E4150	7.4	110	0	7.5	1.2	2.1	.3	18	0
MAR.											
01...	1425	E5560	6.5	100	0	7.5	1.2	2.1	.4	17	0
29...	1310	E5400	7.1	90	0	7.0	1.3	2.0	.3	19	0
APR.											
27...	1355	E10300	6.0	60	0	6.0	1.0	1.5	.2	13	0
MAY											
25...	1415	E4330	4.9	40	0	6.0	.9	1.2	.2	10	0
JUNE											
22...	1215	E3020	5.2	40	0	6.0	1.0	3.8	.4	14	0
AUG.											
18...	1415	E3600	4.1	70	0	5.0	.9	1.6	.3	15	0
SEP.											
14...	1340	E5600	4.3	90	40	6.5	1.1	1.6	.3	16	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
27...	10	10	1.7	.1	.19	--	.01	.14	.6	.02
DEC.										
02...	11	8.8	2.0	.0	.32	--	.01	.08	.8	.04
JAN.										
06...	12	9.1	1.5	.0	.11	--	.02	.10	.9	.06
FEB.										
01...	15	9.4	3.5	.1	.92	--	.02	.14	1.0	.00
MAR.										
01...	14	11	3.6	.1	.51	--	.01	.12	1.5	.03
29...	16	8.5	3.0	.0	.31	--	.01	.06	1.2	.03
APR.										
27...	11	8.2	2.1	.0	.22	--	.01	.03	1.1	.03
MAY										
25...	8	8.1	1.7	.0	.46	--	.01	.01	1.3	.03
JUNE										
22...	11	7.8	2.0	.0	.16	--	.02	.05	1.3	.02
AUG.										
18...	12	8.0	1.6	.0	.27	.58	.03	.09	1.0	.09
SEP.										
14...	13	8.0	2.3	.0	.56	.81	.02	.12	.7	.03

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
27...	38	32	19	18	8	54	6.7	15	15	.01
DEC.										
02...	41	33	4	19	8	51	6.9	17	13	.02
JAN.										
06...	37	33	4	19	7	50	7.0	7	12	.02
FEB.										
01...	75	42	31	24	9	62	7.1	10	7	.03
MAR.										
01...	39	42	5	24	10	61	7.0	10	11	.03
29...	56	40	20	22	7	60	7.1	15	12	.03
APR.										
27...	42	32	14	19	8	51	7.0	11	12	.02
MAY										
25...	--	29	--	18	10	44	7.0	--	8	.03
JUNE										
22...	--	34	--	19	8	51	7.1	--	6	.02
AUG.										
18...	--	30	--	16	4	47	6.9	--	6	.04
SEP.										
14...	--	33	--	21	8	50	6.8	--	10	.04

01326400 HUDSON RIVER AT SPIER FALLS, N.Y.

LOCATION.--Lat 43°14'00", Long 73°45'20", Saratoga County, above Niagara Mohawk Power Plants dam at Spier Falls, 0.5 mile above former gaging station and 5.2 miles downstream from Corinth.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
27...	1310	4.5	40	0	6.0	.9	1.1	.3	14	0
NOV.										
10...	1220	3.3	40	0	8.2	.9	1.5	.2	14	0
DEC.										
18...	1450	4.0	40	0	6.5	1.0	1.6	.2	16	0
JAN.										
20...	1320	4.9	60	0	7.2	1.1	1.6	.3	15	0
FEB.										
17...	1355	9.6	100	10	5.5	1.0	1.9	.3	16	0
MAR.										
17...	1300	6.3	110	0	6.5	1.2	1.9	.4	17	0
APR.										
14...	1440	6.1	70	0	6.0	1.0	1.7	.2	12	0
MAY										
13...	1200	4.9	40	0	5.0	.9	1.1	.2	9	0
JUNE										
09...	1545	5.1	90	0	5.8	1.0	1.5	.8	14	0
JULY										
07...	1100	4.8	170	40	6.0	1.1	1.6	.3	14	0
AUG.										
03...	0915	4.7	160	0	8.0	1.2	2.0	.4	19	0
31...	1530	4.7	100	0	6.6	1.0	1.7	.3	15	0
SEP.										
14...	1430	4.2	130	30	6.0	1.6	1.8	.5	13	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
27...	11	9.8	1.5	.0	.00	--	.01	.13	.5	.06
NOV.										
10...	11	8.2	2.3	.1	.48	--	.02	.16	.6	.08
DEC.										
18...	13	9.0	2.2	.0	.91	--	.06	.16	.6	.06
JAN.										
20...	12	9.7	1.1	.1	.16	--	.02	.07	.9	.06
FEB.										
17...	13	8.5	4.0	.0	.17	--	.02	1.2	.9	.03
MAR.										
17...	14	10	2.5	.0	.15	--	.01	.13	1.5	.09
APR.										
14...	10	10	2.2	.0	.15	--	.01	.12	1.1	.05
MAY										
13...	7	7.9	1.5	.0	.20	--	.01	.05	1.6	.06
JUNE										
09...	11	7.7	2.0	.0	.25	--	.02	.06	1.3	.03
JULY										
07...	11	7.8	2.8	.0	.14	.51	.03	.15	1.0	.03
AUG.										
03...	16	9.0	2.2	.1	.29	.54	.10	.05	.8	.00
31...	12	8.8	1.3	.0	.43	.70	.16	.12	.5	.03
SEP.										
14...	11	10	2.0	.0	1.2	1.5	.03	.26	.5	.03

01326400 HUDSON RIVER AT SPIER FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
27...	30	32	13	16	5	52	6.7	12	12	.02
NOV.										
10...	41	33	6	24	13	52	6.7	5	4	.02
DEC.										
18...	30	34	4	20	7	50	7.1	12	9	.02
JAN.										
20...	32	34	5	22	10	54	6.8	7	7	.02
FEB.										
17...	--	33	4	18	5	57	7.0	16	9	.02
MAR.										
17...	46	39	14	21	7	59	6.9	10	9	.03
APR.										
14...	42	34	11	19	9	53	6.8	21	8	.03
MAY										
13...	--	27	--	16	9	42	6.7	--	22	.01
JUNE										
09...	--	32	--	18	7	49	6.9	--	19	.02
JULY										
07...	--	33	--	20	8	57	7.1	--	19	.02
AUG.										
03...	--	38	--	25	9	128	7.1	--	9	.03
31...	--	33	--	20	8	50	6.8	--	12	.07
SEP.										
14...	--	34	--	21	10	51	6.3	--	11	.04

01327700 HUDSON RIVER AT HUDSON FALLS, N.Y.

LOCATION.--Lat 43°18'00", long 73°35'30", Saratoga County, at Arkell and Smiths Pumphouse on west bank in Fenimore, across river from Hudson Falls and 1,500 ft upstream from Fenimore Dam.

DRAINAGE AREA.--3,491 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: November 1957 to September 1971.

EXTREMES.--1970-71:
Water temperature: Maximum, 25.0°C July 9, 10; minimum, freezing point on many days during winter period.

Period of Record:
Water temperatures: Maximum, 27.0°C July 16-18, 1969; minimum, freezing point on many days during winter periods.

REMARKS.--Stream frozen Jan. 7-10, Jan. 14 to Feb. 11.

COOPERATION.--Water temperature record furnished by Arkell and Smiths Division of the Chase Bag Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	11.0	4.0	0.0	---	1.5	2.0	5.0	15.5	23.5	23.5	20.0
2	16.5	11.0	4.0	0.0	---	1.5	2.0	5.5	16.0	23.5	23.5	20.0
3	16.0	10.5	4.0	0.0	---	1.0	2.0	5.5	16.5	23.0	22.0	20.0
4	15.5	10.5	4.5	0.0	---	1.0	3.0	5.5	16.5	23.5	22.0	---
5	15.5	10.0	4.0	0.0	---	0.5	3.0	5.5	16.5	24.5	23.0	---
6	15.5	9.5	3.5	0.0	---	1.0	3.0	6.0	18.5	24.0	23.0	---
7	15.5	10.5	1.5	---	---	1.0	2.0	6.5	20.5	24.5	23.0	21.5
8	15.5	10.0	1.0	---	---	0.5	2.0	6.0	20.0	24.5	23.0	22.0
9	16.5	10.0	1.0	---	---	0.5	3.0	6.0	19.5	25.0	23.0	23.0
10	16.5	9.5	1.0	---	---	1.0	3.0	9.0	19.0	25.0	23.0	23.0
11	16.5	9.5	1.0	0.0	---	0.5	1.5	8.0	---	24.5	23.5	23.0
12	16.5	9.5	3.5	0.0	2.0	1.0	2.0	8.0	---	24.0	23.5	---
13	16.5	9.5	1.0	0.0	1.0	1.0	2.0	8.5	19.5	23.5	23.5	22.0
14	17.0	9.5	1.0	---	1.0	1.5	2.0	8.5	19.5	23.5	---	21.5
15	16.5	9.0	0.5	---	1.0	1.5	3.0	8.5	20.0	23.5	---	22.0
16	16.5	9.0	0.5	---	1.0	1.5	3.0	8.5	20.0	23.5	23.0	21.5
17	15.5	9.0	0.5	---	0.5	1.5	3.0	9.5	20.5	23.5	23.0	20.5
18	15.0	8.5	1.0	---	1.5	1.5	4.5	10.5	21.0	23.5	23.5	20.5
19	14.5	8.5	1.0	---	1.0	1.5	4.5	12.0	21.0	21.5	23.5	20.0
20	14.0	8.0	0.5	---	1.0	1.5	5.0	13.5	21.5	22.0	23.5	20.0
21	13.0	8.0	0.5	---	1.0	1.5	4.5	14.0	21.5	22.0	23.0	19.5
22	15.5	7.0	0.0	---	1.0	1.0	4.0	14.5	21.5	23.0	23.5	18.5
23	12.0	6.5	0.0	---	1.0	1.5	4.0	13.5	22.0	23.5	23.0	18.0
24	13.0	4.5	0.0	---	0.5	2.0	4.0	13.5	23.0	23.0	22.0	17.0
25	15.5	4.5	0.0	---	1.0	1.5	4.0	13.5	22.0	23.5	21.0	16.5
26	13.0	4.5	0.0	---	1.5	2.0	4.5	14.0	22.0	24.0	21.5	16.5
27	13.0	4.0	0.0	---	2.0	1.5	4.5	14.0	23.0	23.5	21.0	16.0
28	13.0	3.5	0.0	---	3.0	1.5	4.5	14.0	23.0	23.5	20.5	15.5
29	12.0	3.5	0.0	---	---	1.5	5.0	14.0	23.0	23.5	20.0	15.5
30	12.0	4.0	0.0	---	---	1.5	4.5	14.0	24.0	23.5	20.0	16.5
31	11.0	---	0.0	---	---	2.0	---	14.5	---	23.0	19.0	---
AVERAGE	15.0	8.0	1.5	---	---	1.5	3.5	10.0	20.5	23.5	22.5	19.5

01327750 HUDSON RIVER AT FORT EDWARD, N.Y.

LOCATION.--Lat 43°16'10", Long 73°35'47", Washington County, at power plant intake in Fort Edward and 0.4 mile upstream from bridge on State Highway 197.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
15...	1120	3.0	130	0	7.6	1.2	3.4	.3	9	0	7
22...	1530	4.0	--	--	7.5	1.2	2.3	.3	12	0	10
29...	1140	4.4	70	10	7.0	1.0	2.5	.4	10	0	8
NOV.											
10...	1010	3.2	60	10	7.0	1.1	3.2	.5	12	0	10
DEC.											
02...	1150	5.5	100	10	6.5	1.0	2.3	.3	10	0	8
18...	1110	4.0	60	10	7.5	1.1	3.0	.3	10	0	8
JAN.											
06...	1215	4.6	60	20	7.0	1.1	2.8	.3	14	0	11
20...	1100	4.8	80	30	8.1	1.1	2.8	.4	14	0	11
FEB.											
01...	--	5.1	100	30	7.5	1.1	3.2	.4	15	0	12
17...	1045	5.6	130	50	7.8	1.0	3.2	.4	15	0	12
MAR.											
01...	1315	5.7	150	0	7.5	1.3	3.0	.4	18	0	15
17...	1120	6.5	110	40	7.5	1.2	3.3	.4	18	0	15
29...	1130	6.4	120	0	7.0	1.3	3.1	.5	16	0	13
APR.											
14...	1100	6.2	100	0	6.9	1.0	2.7	.3	13	0	11
27...	1105	5.9	90	0	6.8	1.0	2.5	.2	11	0	9
MAY											
13...	1040	5.0	40	0	6.0	.9	1.4	.3	10	0	8
25...	1220	4.6	60	10	5.0	1.0	1.9	.2	10	0	8
JUNE											
09...	1205	5.1	120	0	7.2	1.2	3.9	2.8	12	0	10
22...	1100	5.0	150	20	7.0	1.2	4.5	.6	9	0	7
JULY											
07...	1200	4.4	220	60	6.8	1.3	2.9	.5	16	0	13
21...	1500	4.0	190	40	6.9	1.1	3.7	.8	15	0	12
AUG.											
03...	1035	4.1	130	0	8.0	1.1	3.0	.4	11	0	9
18...	1315	4.0	190	20	6.9	1.0	3.1	.4	16	0	13
31...	1630	4.7	100	0	6.5	1.1	3.0	.3	12	0	10
SEP.											
29...	1000	5.0	130	0	7.0	1.1	3.0	.4	15	0	12

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.											
15...	18	4.4	.2	.79	--	.04	2.2	.8	.10	62	46
22...	12	1.9	.0	--	--	.02	.42	.6	--	43	36
29...	17	4.0	.2	.33	--	.02	1.5	.6	.07	66	44
NOV.											
10...	14	4.0	.0	.01	--	.02	.67	1.1	.07	58	41
DEC.											
02...	17	3.5	.1	.35	--	.02	2.0	1.0	.07	62	44
18...	13	4.0	.0	.40	--	.07	.63	1.1	.12	46	40
JAN.											
06...	12	4.0	.1	.26	--	.02	.36	.8	.07	51	40
20...	14	2.7	.0	.62	--	.03	.52	1.0	.06	41	43
FEB.											
01...	16	4.1	.1	.78	--	.02	.86	1.0	.04	66	47
17...	11	6.0	.0	.17	--	.02	.61	1.2	.06	48	44
MAR.											
01...	13	3.5	.0	.31	--	.02	.18	1.2	.07	44	45
17...	12	6.0	.0	.28	--	.03	1.0	1.4	.06	62	48
29...	11	4.4	.0	.77	--	.01	.13	1.6	.05	64	44
APR.											
14...	12	3.7	.0	.33	--	.02	.53	1.2	.14	50	41
27...	12	4.0	.0	.46	--	.02	.93	1.2	.03	52	40
MAY											
13...	8.5	2.0	.0	.51	--	.01	.10	1.6	.07	--	31
25...	10	3.3	.0	.34	--	.01	.01	2.3	.06	--	33
JUNE											
09...	12	6.3	.0	.48	--	.09	.44	2.4	.02	--	47
22...	20	6.3	.0	.62	--	.04	1.2	2.6	.08	--	53
JULY											
07...	12	2.5	.0	.27	.90	.03	.45	1.1	.06	--	40
21...	13	4.3	.0	.22	.91	.03	.52	1.2	.09	--	43
AUG.											
03...	11	4.3	.0	.40	.84	.13	.22	1.0	.06	--	39
18...	11	2.2	.0	.19	.60	.08	.25	.8	.06	--	38
31...	12	3.0	.0	.49	1.0	.02	.41	1.1	.06	--	39
SEP.											
29...	11	2.6	.0	.80	1.3	.02	.40	.9	.06	--	40

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01327750 HUDSON RIVER AT FORT EDWARD, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.										
15...	20	24	17	83	6.5	--	48	--	27	.04
22...	9	24	14	67	6.9	14.0	7	9.8	--	--
29...	26	22	14	75	6.4	--	35	--	44	.04
NOV.										
10...	11	22	12	73	6.3	--	10	--	7	.04
DEC.										
02...	21	20	12	74	6.5	--	33	--	28	.06
18...	11	23	15	68	6.5	--	11	--	9	.04
JAN.										
06...	18	22	11	64	6.6	--	10	--	15	.04
20...	6	24	13	67	6.6	--	20	--	14	.02
FEB.										
01...	18	23	11	78	6.8	--	20	--	28	.06
17...	9	23	11	69	6.7	--	18	--	13	.03
MAR.										
01...	1	23	8	69	7.0	--	13	--	12	.03
17...	18	23	9	75	6.8	--	12	--	33	.04
29...	40	22	10	70	6.8	--	24	--	24	.03
APR.										
14...	17	21	11	67	6.8	--	23	--	27	.04
27...	18	21	12	65	6.5	--	17	--	20	.04
MAY										
13...	--	18	10	47	6.8	--	--	--	15	.01
25...	--	16	8	52	6.7	--	--	--	10	.04
JUNE										
09...	--	22	13	72	6.7	--	--	--	37	.05
22...	--	22	15	87	6.1	--	--	--	23	.04
JULY										
07...	--	22	9	64	6.6	--	--	--	40	.03
21...	--	22	9	72	6.7	--	--	--	32	.04
AUG.										
03...	--	25	15	68	6.7	--	--	--	41	.05
18...	--	21	8	62	6.8	--	--	--	20	.04
31...	--	21	11	65	6.5	--	--	--	15	.03
SEP.										
29...	--	22	10	62	6.6	--	--	--	19	.04

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.										
22...	0	1	20	1	150	5	0	<.5	<.5	40

01329640 BATTEN KILL AT MIDDLE FALLS, N.Y.

LOCATION.--Lat 43°05'05", Long 73°31'32", Rensselaer County, at Niagara Mohawk Power Plant in Middle Falls, 0.5 mile downstream from Hartshorn Brook, and 4.5 miles upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
27...	1040	--	4.1	20	10	22	4.1	2.4	.7	80	0
DEC.											
02...	1030	240	3.9	40	0	23	5.4	2.9	.6	80	0
JAN.											
06...	1100	240	3.9	50	0	23	4.8	3.1	.6	83	0
FEB.											
01...	1135	240	4.7	60	20	34	6.1	3.5	.7	116	0
MAR.											
01...	1120	320	4.3	50	0	21	4.0	3.5	1.0	66	0
29...	1040	240	3.1	30	0	28	5.6	3.7	.9	90	0
APR.											
27...	1105	360	2.9	30	0	20	4.9	2.7	.6	68	0
MAY											
25...	1100	240	3.2	10	0	23	5.0	2.6	.5	76	0
JUNE											
22...	1015	--	1.8	0	0	32	8.2	1.6	.9	116	0
JULY											
21...	1330	--	2.2	30	0	29	8.1	3.8	1.3	113	0
AUG.											
18...	1230	--	1.1	30	0	31	8.0	6.0	.9	120	0
SEP.											
14...	1250	--	2.2	40	0	31	7.5	3.7	1.2	110	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
27...	66	12	4.3	.1	.00	--	.02	.12	1.4	.04
DEC.										
02...	66	12	4.5	.0	.09	--	.01	.06	2.2	.04
JAN.										
06...	68	12	3.7	.0	.17	--	.02	.06	2.8	.11
FEB.										
01...	95	15	5.8	.1	.18	--	.02	.11	3.1	.02
MAR.										
01...	54	13	7.2	.1	.42	--	.14	.08	4.5	.28
29...	74	13	7.2	.0	.32	--	.02	.05	4.6	.08
APR.										
27...	56	10	4.4	.1	.17	--	.03	.09	3.2	.06
MAY										
25...	62	10	2.7	.0	.17	--	.03	.01	2.2	.07
JUNE										
22...	95	12	6.7	.0	.33	--	.17	.06	2.6	.05
JULY										
21...	93	11	5.8	.0	.23	.69	.03	.23	1.2	.18
AUG.										
18...	98	12	7.8	.0	.20	.54	.07	.15	.8	.09
SEP.										
14...	90	11	6.0	.0	.32	.74	.05	.14	1.3	.09

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01329640 BATTEN KILL AT MIDDLE FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
27...	111	90	17	72	6	172	7.6	6	8	.01
DEC.										
02...	106	94	6	80	14	172	7.7	8	8	.02
JAN.										
06...	--	95	4	77	9	176	7.8	2	7	.02
FEB.										
01...	141	130	30	110	15	221	7.9	0	6	.02
MAR.										
01...	94	92	9	69	15	163	7.5	5	12	.03
29...	117	111	27	92	19	203	7.9	8	18	.03
APR.										
27...	95	82	20	70	14	159	7.7	4	9	.02
MAY										
25...	--	86	--	78	16	160	7.9	--	5	.02
JUNE										
22...	--	118	--	114	19	210	7.8	--	2	.02
JULY										
21...	--	119	--	110	13	220	7.9	--	15	.02
AUG.										
18...	--	127	--	110	12	240	7.8	--	13	.03
SEP.										
14...	--	119	--	110	18	219	7.2	--	26	.04

01329995 GLOWEGEE CREEK NEAR WEST MILTON, N.Y.

LOCATION.--Lat 43°02'29", long 73°56'40", Saratoga County, specific conductance and temperature recorders 60 ft upstream from S3G drainage ditch of the U.S. Atomic Energy Commission, 0.1 mile downstream from a small tributary and 1.0 mile northwest of West Milton.

DRAINAGE AREA.--21.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1964 to December 1966, July 1967 to September 1971.
Water temperatures: October to December 1966, July 1967 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 305 micromhos Sept. 20; minimum, 130 micromhos Aug. 28.
Water temperatures: Maximum, 26.5°C June 30; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance (1964, 1965, 1966-71): Maximum, 340 micromhos Jan. 16, 1966; minimum, 85 micromhos Mar. 27, 1970.
Water temperatures: Maximum, 29.0°C July 16, 17, 1968; minimum, freezing point on many days during winter periods.

REMARKS.--Specific conductance records all reported to the nearest five micromhos. Specific conductance records for 1965 and 1966 water years published as auxiliary recorder 01330000 Glowegee Creek at West Milton.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	255	250	290	280	270	265	275	270	280	280	240	230
2	260	255	290	285	270	265	270	270	280	280	245	225
3	265	255	285	285	275	265	270	260	280	280	225	220
4	265	260	290	285	275	225	260	255	280	275	220	220
5	270	265	290	290	250	230	255	235	275	275	220	215
6	280	270	290	290	250	250	240	240	275	275	215	215
7	280	280	290	255	255	250	240	240	280	275	220	215
8	285	280	265	260	280	255	240	240	275	275	220	220
9	285	285	265	265	285	280	245	240	280	275	230	220
10	285	250	270	265	285	275	250	245	275	270	230	230
11	260	250	270	270	280	280	245	240	280	275	235	230
12	270	260	270	270	280	280	255	240	280	280	240	235
13	270	270	270	265	280	275	260	255	280	240	240	240
14	270	270	265	265	280	275	265	260	245	230	245	240
15	270	260	265	230	275	270	260	260	235	230	250	240
16	260	250	240	230	270	270	260	260	245	235	240	190
17	260	255	250	240	270	270	260	260	255	245	190	185
18	270	260	255	250	270	265	260	260	270	255	190	185
19	275	270	255	255	265	265	260	260	290	270	190	185
20	275	275	255	255	265	265	260	260	295	290	240	190
21	275	250	255	235	265	265	260	260	295	290	240	240
22	250	245	245	235	270	265	---	---	290	290	240	200
23	250	205	250	245	275	270	---	---	295	290	220	205
24	260	240	250	245	275	275	---	---	295	295	210	210
25	285	260	255	250	275	275	---	---	300	295	215	210
26	290	285	255	255	275	275	---	---	300	290	215	215
27	290	255	260	255	275	275	---	---	290	230	220	215
28	275	270	260	260	280	275	---	---	230	230	220	220
29	280	275	270	260	280	275	---	---	---	---	225	210
30	280	280	270	270	275	275	280	280	---	---	220	215
31	280	280	---	---	275	275	280	280	---	---	225	220

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	220	205	180	180	240	240	250	205	235	225	205	200
2	225	220	190	175	250	240	215	205	240	235	215	205
3	225	200	220	180	245	240	230	215	235	215	225	215
4	210	205	220	215	245	240	240	230	220	215	230	225
5	220	210	235	215	240	240	240	240	225	220	235	230
6	215	210	240	230	240	235	240	235	230	225	245	235
7	220	195	240	195	245	240	240	240	230	230	250	245
8	205	195	195	190	245	240	250	240	230	230	245	245
9	215	190	190	190	245	245	250	245	245	230	245	245
10	190	170	195	185	245	245	245	245	245	245	250	240
11	195	180	205	195	250	245	245	245	245	245	245	240
12	180	145	210	205	250	250	250	245	245	245	245	245
13	150	140	210	205	255	250	250	250	245	235	250	240
14	145	145	215	210	260	255	250	235	240	240	245	190
15	160	145	215	215	260	255	240	235	240	240	245	235
16	165	160	220	215	260	245	240	235	240	240	265	245
17	175	165	230	220	245	245	245	240	245	240	270	265
18	180	175	230	230	250	245	250	245	245	245	275	270
19	180	170	235	230	250	250	250	180	250	245	275	275
20	175	160	235	235	255	250	190	180	250	250	305	275
21	160	160	240	235	255	185	210	190	250	250	275	265
22	160	160	240	240	225	190	220	210	250	240	275	265
23	160	160	245	240	245	225	225	215	295	240	275	270
24	165	160	250	245	245	240	235	225	265	250	280	275
25	165	165	250	250	245	195	235	225	250	240	280	280
26	170	165	250	250	215	185	260	230	240	240	280	280
27	175	170	250	245	225	215	240	230	260	210	280	280
28	170	170	245	245	240	220	235	230	220	130	280	280
29	170	170	245	245	240	240	240	235	170	160	280	280
30	180	175	245	245	245	240	240	235	190	170	280	280
31	---	---	245	240	---	---	245	225	200	190	---	---

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01329995 GLOWEGEE CREEK NEAR WEST MILTON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.5	8.0	4.5	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
2	11.5	8.0	8.5	5.5	5.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
3	13.5	11.0	8.5	4.5	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
4	11.5	9.0	9.0	6.5	5.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
5	11.5	9.0	7.0	5.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	10.5	6.5	5.5	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	14.5	10.5	6.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	15.5	11.0	5.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	15.5	11.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	16.5	13.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	16.0	15.0	9.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	15.5	13.5	9.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	16.0	14.5	9.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	18.0	15.0	9.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
15	16.5	15.0	7.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	15.0	10.0	6.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
17	10.0	6.5	6.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	9.0	4.5	5.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	9.0	5.5	5.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	7.0	3.0	6.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
21	9.0	5.5	6.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	10.5	9.0	5.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	13.0	10.5	5.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
24	13.5	11.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	11.0	9.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	12.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	10.5	6.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
28	8.0	4.5	4.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
29	6.0	2.0	4.0	3.0	0.0	0.0	0.0	0.0	---	---	0.5	0.0
30	6.5	2.0	5.0	3.5	0.0	0.0	0.0	0.0	---	---	3.5	0.5
31	6.5	3.0	---	---	0.0	0.0	0.0	0.0	---	---	4.5	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.5	0.0	10.0	6.0	19.0	11.0	23.0	20.0	21.0	18.0	16.5	11.0
2	2.0	1.0	11.0	7.0	15.5	10.5	21.0	18.0	21.5	19.0	16.0	10.5
3	4.0	0.5	9.0	8.0	18.5	13.5	21.5	14.5	20.0	19.0	18.0	13.0
4	4.0	0.0	9.0	6.5	21.0	14.5	22.0	13.5	19.0	16.5	20.0	15.5
5	4.0	0.0	12.0	5.5	19.5	13.5	24.0	15.0	21.0	14.5	21.5	17.0
6	3.5	0.0	11.5	8.0	18.0	11.0	20.5	16.0	21.0	15.5	22.0	18.5
7	4.5	0.5	15.5	7.0	21.5	13.5	24.0	16.5	21.5	16.5	22.0	19.0
8	4.5	0.0	10.0	8.5	21.0	16.5	24.5	16.5	23.5	15.5	22.0	19.0
9	5.0	0.0	9.0	8.0	19.0	15.5	24.5	18.5	24.5	18.0	21.0	17.0
10	1.5	0.0	14.5	7.0	19.5	11.0	24.0	16.0	23.5	18.0	19.5	14.5
11	4.5	0.5	17.0	8.5	19.5	11.0	20.0	16.0	23.0	19.5	20.0	16.5
12	5.5	0.0	13.0	10.5	21.0	13.0	21.5	14.0	21.0	15.5	20.0	18.0
13	5.5	1.0	12.0	8.5	20.0	16.5	20.0	14.0	21.5	13.5	19.5	19.0
14	4.0	1.0	14.5	7.0	18.5	15.0	21.0	16.0	22.0	15.0	19.0	18.0
15	5.5	0.0	16.0	6.5	18.0	14.5	22.0	14.5	19.5	15.5	20.0	18.0
16	3.5	1.0	15.0	10.5	20.0	11.5	20.5	15.5	20.5	14.0	20.5	17.0
17	7.0	0.5	16.5	10.0	22.0	13.5	20.5	16.0	20.5	13.0	19.0	16.5
18	7.0	2.0	20.0	10.0	22.0	15.0	20.5	14.5	21.5	15.0	18.0	15.5
19	10.0	3.5	21.0	13.0	23.0	16.0	17.0	13.5	21.5	15.0	15.5	13.0
20	10.0	4.0	21.0	15.0	23.0	16.0	19.0	14.5	20.5	17.0	16.5	14.5
21	6.5	4.5	19.0	15.0	20.5	17.0	20.5	13.5	21.5	17.0	17.0	15.5
22	7.0	5.0	16.0	13.0	22.0	16.5	22.0	14.5	22.0	16.5	15.5	11.0
23	9.0	4.0	18.0	10.0	23.5	15.5	22.0	15.5	19.5	14.5	13.5	10.5
24	10.5	3.5	18.0	9.5	24.0	17.0	21.5	16.5	16.5	11.0	14.5	11.5
25	8.5	5.0	17.0	13.5	22.0	16.5	21.5	18.0	14.5	10.0	13.5	10.0
26	8.5	5.5	15.0	13.5	21.0	18.0	23.0	17.0	19.0	13.0	13.5	10.0
27	11.0	5.5	14.0	11.5	22.0	15.0	23.5	19.5	17.0	14.5	12.0	11.0
28	9.5	6.0	14.5	10.0	23.5	16.0	21.0	14.5	16.5	14.5	13.5	12.0
29	7.0	5.0	19.0	9.5	24.5	18.5	19.0	16.0	18.5	15.5	16.5	13.5
30	8.0	6.0	18.0	11.5	26.5	19.0	21.5	17.0	19.5	14.5	16.5	13.5
31	---	---	20.0	13.5	---	---	20.5	18.5	19.0	15.0	---	---

01330000 GLOWEGEE CREEK AT WEST MILTON, N.Y.

LOCATION.--Lat 43°01'50", long 73°55'40", Saratoga County, specific conductapce and temperature recorders at former gaging station at upstream side of highway bridge, 0.5 mile south of West Milton, 1.5 miles upstream from mouth, and 4 miles northwest of Ballston Spa.

DRAINAGE AREA.--26.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1953 to September 1956, October 1964 to September 1971.
Water temperatures: March 1953 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 335 micromhos Oct. 15; minimum, 135 micromhos Aug. 28.
Water temperatures: Maximum, 24.5°C June 30; minimum, freezing point on many days during winter period.

Period of record:
Specific conductance (1964-71): Maximum, 480 micromhos Aug. 31, Sept. 4, 1969; minimum, 125 micromhos Mar. 25, 1968.
Water temperatures: Maximum, 28.0°C July 24, 1961, July 3, 1966, July 16, 1968; minimum, freezing point on many days during winter periods.

REMARKS.--Specific conductance records are reported to the nearest five micromhos. No specific conductance record Oct. 6-12, Dec. 1-11, Jan. 27-29.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	300	290	300	300	---	---	285	280	265	260	240	240
2	315	300	310	300	---	---	285	280	265	260	260	240
3	310	305	315	280	---	---	280	275	275	260	265	260
4	315	300	295	280	---	---	275	275	265	265	270	265
5	315	305	300	295	---	---	275	265	270	265	275	270
6	---	---	295	295	---	---	265	260	275	265	280	275
7	---	---	295	295	---	---	265	260	280	265	275	275
8	---	---	295	280	---	---	275	265	280	260	275	270
9	---	---	295	280	---	---	280	275	265	260	270	270
10	---	---	300	295	---	---	285	275	265	265	270	270
11	---	---	300	285	---	---	290	285	265	265	270	270
12	---	---	285	270	300	290	290	290	265	255	285	270
13	300	290	270	265	300	290	290	290	255	235	280	270
14	320	300	275	270	290	290	290	290	235	205	275	270
15	335	280	275	235	290	285	290	280	205	205	275	265
16	280	270	245	235	290	290	280	280	205	205	265	250
17	285	270	260	245	290	285	280	280	215	205	250	250
18	305	285	265	260	285	285	280	280	235	205	260	230
19	310	305	275	260	285	285	280	280	230	230	260	260
20	305	305	260	260	290	285	305	280	240	230	270	260
21	305	305	260	245	290	280	305	290	230	220	270	270
22	305	265	260	245	280	280	290	290	220	220	270	265
23	270	225	275	260	295	280	290	285	225	220	265	250
24	270	245	270	270	290	285	285	285	225	225	270	265
25	290	270	285	270	285	280	285	285	250	225	270	265
26	295	290	285	285	280	280	315	285	285	250	265	265
27	290	270	290	285	280	270	---	---	285	240	265	265
28	285	280	290	285	280	270	---	---	240	240	270	265
29	295	285	290	280	270	270	---	---	---	---	270	265
30	295	285	280	280	275	270	270	265	---	---	265	265
31	300	295	---	---	280	275	275	265	---	---	270	265

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	270	265	190	190	250	235	265	210	240	240	225	220
2	265	245	195	190	250	240	210	205	240	240	230	225
3	250	215	195	185	250	240	230	210	240	220	240	230
4	225	215	185	180	240	240	240	230	240	220	245	240
5	225	210	190	180	240	240	245	240	250	240	245	240
6	220	210	195	185	240	240	255	245	255	245	250	240
7	220	185	205	195	240	240	265	255	255	255	260	250
8	205	190	205	205	255	240	275	260	255	255	260	255
9	205	180	205	200	255	255	275	265	255	250	265	260
10	190	170	200	200	255	255	265	265	255	250	265	265
11	190	180	205	200	255	250	265	265	250	245	270	265
12	185	170	215	205	260	255	270	265	260	250	265	260
13	175	165	215	210	260	255	265	260	260	250	260	250
14	165	160	215	210	260	260	265	255	260	255	260	220
15	180	165	215	215	260	260	255	250	260	255	255	240
16	180	175	220	215	260	260	250	250	260	255	270	255
17	195	180	230	220	260	260	255	250	255	250	285	265
18	190	185	225	225	270	260	260	255	255	250	290	285
19	185	175	230	225	265	255	260	210	255	255	290	290
20	175	170	230	230	255	255	215	210	260	255	290	290
21	170	170	235	230	255	205	225	215	270	260	290	275
22	180	170	235	235	225	210	230	225	270	260	275	265
23	180	180	240	235	245	225	240	230	265	255	270	265
24	180	180	240	240	255	245	235	235	265	260	290	265
25	185	180	240	240	260	255	245	235	260	260	270	270
26	190	185	240	235	255	205	240	240	270	260	290	270
27	190	190	240	235	250	225	240	240	265	235	275	275
28	190	190	240	235	260	250	240	240	245	135	280	275
29	190	190	240	240	265	255	240	240	185	160	280	280
30	190	190	240	240	260	255	240	240	205	185	295	280
31	---	---	240	235	---	---	240	240	220	205	---	---

CONTINUED NEXT PAGE

013330000 GLOWEGEE CREEK AT WEST MILTON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	9.5	9.0	2.0	2.0	0.0	0.0	1.0	0.0	1.0	1.0
2	11.0	9.5	9.0	9.0	2.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0
3	9.5	8.0	9.0	9.0	2.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0
4	8.0	7.0	9.0	8.5	3.5	2.0	0.0	0.0	0.0	0.0	1.0	1.0
5	8.0	7.0	9.0	9.0	3.0	2.0	1.0	0.0	0.0	0.0	1.0	1.0
6	8.5	7.0	9.5	9.0	2.0	1.0	1.0	0.5	0.0	0.0	1.0	1.0
7	8.5	8.0	9.0	8.5	1.0	0.5	0.5	0.5	0.0	0.0	1.0	1.0
8	10.0	8.5	8.5	8.5	0.5	0.0	0.5	0.0	0.5	0.0	1.0	0.5
9	11.5	10.0	8.5	8.0	0.0	0.0	0.0	0.0	0.5	0.0	1.0	0.0
10	13.5	11.5	8.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
11	14.5	13.5	8.5	8.0	0.0	0.0	0.5	0.0	0.0	0.0	1.0	0.5
12	14.5	14.5	9.0	8.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
13	15.0	14.5	9.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
14	16.0	15.0	9.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.0
15	15.0	14.0	9.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
16	14.0	13.0	9.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.0
17	13.0	11.0	8.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
18	11.0	9.5	8.0	7.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0
19	9.5	8.5	7.0	6.5	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
20	9.0	8.5	6.5	6.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
21	9.0	8.0	6.5	6.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	9.5	8.5	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
23	10.0	9.5	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
24	10.5	10.0	5.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	11.0	10.5	4.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
26	12.0	11.0	3.5	2.0	0.5	0.0	0.0	0.0	1.0	0.0	0.5	0.0
27	12.0	12.0	2.0	2.0	0.5	0.0	0.0	0.0	1.0	0.0	1.0	0.5
28	12.0	11.0	2.0	2.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.5
29	11.5	11.0	2.0	1.5	0.0	0.0	0.5	0.0	---	---	1.5	1.0
30	11.0	10.0	3.0	1.5	0.0	0.0	1.0	0.5	---	---	2.0	1.5
31	10.0	9.5	---	---	0.0	0.0	1.0	0.5	---	---	2.0	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.0	1.0	7.0	6.5	18.0	14.5	22.0	20.5	20.0	18.5	16.5	16.0
2	2.0	1.5	10.0	6.5	16.5	14.5	20.5	19.0	21.0	19.5	16.0	16.0
3	2.0	1.0	10.0	7.0	16.5	14.5	20.0	18.0	20.0	18.0	18.5	16.0
4	2.0	1.0	9.5	7.0	19.0	15.5	20.5	17.0	18.5	17.0	20.0	17.0
5	1.5	0.0	8.0	8.0	19.5	16.5	21.0	18.0	19.0	17.0	21.5	19.0
6	0.5	0.0	9.0	8.0	18.0	15.5	19.5	18.0	20.5	17.0	23.0	20.0
7	2.0	0.0	10.0	9.0	21.0	16.0	21.0	18.0	21.5	18.5	23.0	21.0
8	1.5	0.0	13.0	9.5	21.5	19.0	23.0	18.5	22.0	18.5	23.0	20.5
9	3.0	0.0	13.0	10.5	20.0	18.5	23.0	19.5	23.5	19.0	21.5	20.0
10	1.0	0.0	11.0	10.0	20.5	16.5	22.0	17.0	22.0	20.0	21.0	19.5
11	3.0	0.5	11.0	10.0	20.0	16.0	20.5	18.0	22.0	20.0	20.0	19.0
12	4.5	1.0	14.5	10.5	20.5	16.0	20.5	17.0	21.0	19.0	20.5	19.0
13	4.5	1.5	14.0	10.5	20.0	18.0	19.0	16.5	21.0	19.0	20.5	20.0
14	2.0	1.5	10.5	10.0	19.0	17.0	19.5	16.5	21.5	19.0	20.5	18.5
15	3.5	1.5	11.0	10.5	18.5	16.5	19.5	15.5	20.5	18.0	19.0	18.5
16	1.5	1.0	11.5	10.5	20.0	15.5	19.0	16.0	19.5	18.0	19.0	18.0
17	4.0	1.0	13.5	11.5	21.5	16.5	19.0	16.5	20.0	17.0	18.0	17.0
18	4.5	1.5	16.0	11.5	21.5	17.0	18.5	15.5	20.0	16.5	17.0	15.5
19	6.0	1.5	19.0	15.0	21.5	18.0	16.5	14.5	19.5	17.0	15.5	14.5
20	8.0	2.8	19.0	16.5	21.0	17.0	16.0	14.0	20.0	18.5	14.5	14.5
21	4.5	3.5	18.5	16.0	20.5	18.0	18.5	15.0	20.0	18.5	14.5	14.0
22	4.5	3.5	16.0	11.5	20.5	18.0	20.0	15.5	20.5	18.0	14.5	14.0
23	4.5	3.5	11.5	11.0	21.0	16.5	20.5	16.5	20.0	18.5	14.5	14.0
24	6.0	3.5	13.5	11.0	21.5	18.0	21.0	18.5	18.5	17.0	14.5	14.5
25	6.0	5.0	15.0	11.5	20.5	17.0	21.0	19.0	17.0	16.0	14.5	14.0
26	6.0	5.0	15.5	11.5	19.5	15.5	22.0	19.0	18.0	16.0	14.0	13.5
27	8.5	6.0	13.0	11.0	20.0	16.5	23.0	20.0	18.0	16.0	13.5	13.5
28	8.0	6.0	14.0	11.5	21.0	18.5	21.0	18.5	16.5	15.5	13.5	13.5
29	6.5	6.0	16.5	12.0	22.0	18.5	19.5	18.0	15.5	15.5	15.0	13.5
30	6.5	6.0	16.5	14.0	24.5	19.0	20.5	18.5	16.0	15.5	15.5	14.0
31	---	---	19.0	15.0	---	---	19.5	19.0	16.5	16.0	---	---

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, N.Y.

LOCATION.--Lat 43°02'25", long 73°54'30", Saratoga County, temperature recorder at gaging station on left bank 500 ft downstream from Glowegee Creek, 1 mile east of West Milton, and 3.5 miles northwest of Ballston Spa.

DRAINAGE AREA.--90 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1953 to June 1955.
Water temperatures: October 1952 to June 1970; June to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 23.5°C July 9.

Period of record:
Water temperatures: Maximum, (1952-69,71) 28.5°C July 10, 1955; minimum, (1952-70) freezing point on many days during winter periods.

REMARKS.--No water temperature record June 1-15, Sept. 24-30.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
APR.								
30...	1450	482	4.8	13	4.6	2.8	.3	23

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
APR.									
30...	0	19	12	4.4	.1	.02	.13	.5	84

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
APR.								
30...	54	30	51	33	112	7.7	5.5	14

CONTINUED NEXT PAGE

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR JUNE TO SEPTEMBER 1971
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	21.5	19.0	20.0	18.0	17.5	14.5
2	---	---	19.5	17.5	21.0	18.0	16.5	13.5
3	---	---	19.5	15.5	19.5	18.0	17.5	14.5
4	---	---	20.0	14.5	19.0	15.0	19.5	16.0
5	---	---	21.0	15.5	21.0	15.5	21.5	18.0
6	---	---	19.0	16.5	21.0	13.5	22.0	19.0
7	---	---	21.0	16.5	21.5	17.5	21.0	19.5
8	---	---	22.0	17.5	22.0	17.0	21.5	19.0
9	---	---	23.5	20.0	23.0	18.5	21.0	18.5
10	---	---	23.0	18.0	22.0	18.0	20.0	17.0
11	---	---	21.0	18.5	22.0	18.0	20.0	18.0
12	---	---	22.0	16.5	18.5	14.5	20.0	18.5
13	---	---	20.5	16.5	19.0	12.5	19.0	18.5
14	---	---	21.5	17.0	19.5	13.5	18.5	18.0
15	---	---	22.0	16.0	19.0	13.5	19.5	18.0
16	17.5	13.0	21.5	18.0	19.0	13.0	19.5	17.5
17	18.5	14.5	21.0	18.5	21.5	12.0	18.0	17.0
18	19.0	15.5	20.5	16.5	21.0	13.0	17.0	14.5
19	19.5	16.0	19.0	15.0	21.0	16.5	15.0	13.5
20	20.0	16.5	17.5	13.0	21.0	18.0	15.0	14.5
21	19.0	17.5	20.0	15.0	20.5	18.5	16.0	14.0
22	20.0	16.0	21.5	16.5	21.0	18.5	15.0	12.5
23	20.5	16.0	22.5	16.5	21.0	17.5	13.5	12.0
24	20.5	17.0	22.0	18.5	18.0	14.5	---	---
25	21.5	17.0	22.0	19.0	16.5	13.5	---	---
26	18.5	17.0	22.5	18.5	18.0	15.0	---	---
27	19.5	15.5	23.0	20.0	18.0	16.0	---	---
28	20.0	16.5	22.0	17.0	16.0	15.5	---	---
29	21.0	17.5	20.0	18.0	16.5	15.5	---	---
30	23.0	18.5	20.0	16.0	18.5	16.0	---	---
31	---	---	19.5	18.5	18.5	16.0	---	---

01331095 HUDSON RIVER AT STILLWATER, N.Y.

LOCATION.--Lat 42°56'16", Long 73°39'06", Saratoga and Rensselaer Counties, at bridge on State Highway 67 in Stillwater and 0.9 mile upstream from Hoosic River.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
15...	0950	3.3	220	10	11	2.0	3.8	.5	6	0
NOV.										
10...	0910	3.6	80	0	11	2.0	3.3	.4	26	0
18...	1025	4.7	50	20	30	3.9	5.9	.9	82	0
DEC.										
18...	0950	4.4	70	0	11	1.9	3.5	.4	25	0
JAN.										
20...	0945	5.0	130	30	15	2.0	4.2	.5	27	0
FEB.										
17...	0925	5.3	130	40	10	2.3	3.8	.6	27	0
MAR.										
17...	0955	5.4	120	0	15	3.1	4.4	.9	43	0
APR.										
14...	0935	5.5	130	0	13	2.7	3.5	.6	35	0
MAY										
13...	0935	4.8	50	0	7.0	1.3	1.8	.3	16	0
JUNE										
09...	1035	4.8	290	0	10	2.1	3.6	1.7	28	0
JULY										
07...	1340	4.2	250	50	13	3.1	4.2	.6	38	0
AUG.										
03...	1215	3.7	200	0	12	2.6	4.5	2.0	30	0
31...	1800	4.2	70	0	10	2.4	3.4	.6	30	0
SEP.										
29...	1115	4.9	210	0	9.0	1.6	2.4	.4	20	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
15...	5	33	5.3	.1	.83	--	.40	3.4	1.1	.11
NOV.										
10...	21	14	3.8	.1	.66	--	.17	.72	3.0	.11
18...	67	26	8.5	.1	.36	--	.00	.14	2.8	.50
DEC.										
18...	21	14	5.1	.1	.44	--	.06	.52	1.3	.09
JAN.										
20...	22	18	5.4	.1	.60	--	.04	.90	1.3	.09
FEB.										
17...	22	17	6.0	.0	.38	--	.03	1.1	1.6	.16
MAR.										
17...	35	16	6.1	.0	.60	--	.05	.58	3.4	.29
APR.										
14...	29	19	5.3	.0	.25	--	.03	.25	2.1	.20
MAY										
13...	13	9.6	2.4	.0	.38	--	.17	.31	2.2	.22
JUNE										
09...	23	11	5.6	.0	.26	--	.09	.04	1.7	.02
JULY										
07...	31	13	7.2	.0	.39	1.4	.30	.86	1.2	.09
AUG.										
03...	25	14	6.5	.0	.42	.97	.12	.17	1.7	.15
31...	25	11	4.3	.0	.55	.97	.04	.23	1.0	.12
SEP.										
29...	16	12	4.6	.0	.45	.89	.02	.40	.5	.06

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01331095 HUDSON RIVER AT STILLWATER, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
15...	79	68	29	36	31	116	5.9	85	30	.04
NOV.										
10...	68	56	11	36	15	100	6.7	7	8	.02
18...	127	124	8	91	24	218	7.7	12	10	.04
DEC.										
18...	70	54	39	36	15	92	6.9	16	14	.04
JAN.										
20...	55	66	4	45	24	108	6.7	22	17	.04
FEB.										
17...	69	61	9	34	12	105	6.8	12	20	.04
MAR.										
17...	90	77	5	50	15	131	7.1	17	25	.04
APR.										
14...	77	69	20	43	19	111	7.2	26	24	.03
MAY										
13...	--	38	--	22	10	61	6.8	--	9	.01
JUNE										
09...	--	54	--	33	11	94	7.0	--	31	.03
JULY										
07...	--	67	--	45	14	118	7.0	--	28	.04
AUG.										
03...	--	63	--	41	16	110	7.2	--	10	.04
31...	--	53	--	35	10	92	7.0	--	13	.03
SEP.										
29...	--	46	--	29	13	76	6.7	--	22	.04

01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.

LOCATION.--Lat 42°48'33", long 73°17'12", Rensselaer County, N.Y., at bridge on New York-Vermont State Highway 346, at state line, 1.3 miles northwest of North Pownal, Vermont.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)
OCT.												
06...	1330	225	11.5	8.5	24000	E240000	200	--	--	--	--	--
NOV.												
05...	1215	194	9.0	--	--	55000	365	7.7	--	--	--	--
DEC.												
09...	1500	349	1.0	9.1	200000	--	--	--	--	--	--	--
JAN.												
07...	1300	570	.5	9.0	2800	143000	--	7.5	--	--	--	--
FEB.												
23...	1200	1370	.0	13.2	--	--	286	7.9	--	--	--	--
MAR.												
23...	1200	449	3.0	9.2	--	15000	284	7.7	--	--	--	--
APR.												
06...	1100	988	3.0	13.8	600	7200	187	7.9	--	--	--	--
MAY												
05...	1100	1900	6.0	9.6	870	5900	120	8.0	--	--	--	--
JUNE												
10...	1100	296	18.5	9.2	34	36000	274	8.4	--	--	--	--
JULY												
01...	1700	135	23.5	5.7	1300	97000	320	8.0	130	0	107	.93
AUG.												
05...	1030	262	18.5	14.1	3800	100000	239	7.4	96	0	79	--
SEP.												
01...	1000	279	17.5	6.0	9900	270000	260	7.5	110	0	90	1.0

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.											
06...	--	1.7	--	--	.6	.26	--	5	9	.1	.05
NOV.											
05...	--	1.2	--	--	.4	.28	--	3	15	2.0	.29
DEC.											
09...	--	1.2	--	--	.7	.36	--	10	9	.0	.07
JAN.											
07...	--	1.3	--	--	.6	.29	--	7	12	.0	.06
FEB.											
23...	--	1.4	--	--	.7	.21	--	6	8	.0	.03
MAR.											
23...	--	.98	--	--	.9	.19	--	9	14	--	.04
APR.											
06...	--	.72	--	--	.9	.12	--	8	11	.0	.05
MAY											
05...	--	.15	--	--	.6	.070	--	6	12	3.0	.04
JUNE											
10...	--	.93	--	--	.1	.17	--	3	17	6.8	.06
JULY											
01...	2.5	1.8	.13	.85	.6	.22	--	20	13	4.3	.09
AUG.											
05...	--	.87	.070	.30	.4	.23	--	1	12	3.1	.05
SEP.											
01...	1.8	1.4	.030	.35	.5	.27	.050	20	20	.0	.09

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
SEP.							
01...	6	0	130	1	140	<.5	10

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01333350 HOOSIC RIVER NEAR NORTH POWNAL, VT.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
SEP. 01...	4.4	28	6.8	15	1.9	34	14	.1	149	163	22

DATE	FIXED FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)
SEP. 01...	23	18	[illegible]	8	4	12	2.6	180	3	.01

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)
OCT. 06...	--	<.01	--	<.01	--	--	--	--	--	--
JUNE 10...	--	.00	.00	.01	.00	.00	--	--	.01	.00
SEP. 01...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	SILVEX (UG/L)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 06...	--	--	--	--	--	--	--	.10	--
JUNE 10...	.00	.00	.00	.00	.00	--	.00	.20	--
SEP. 01...	.00	.00	.00	.00	.00	.00	.00	.10	.0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 01...	.9	4.3	.4	1.5	2.7	1.3	3.4	1.4

01333360 HOOSIC RIVER AT NORTH PETERSBURG, N.Y.

LOCATION.--Lat 42°49'35", Long 73°19'21", Rensselaer County, at bridge on County Highway 11, 1,200 ft upstream from Little Hoosic River and 0.5 mile northeast of North Petersburg.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 27...	0935	340	3.8	10	0	23	5.0	11	1.1	82	0
DEC. 02...	0925	372	4.5	30	0	22	5.3	13	1.0	78	0
JAN. 06...	0950	--	3.7	70	0	27	5.2	21	1.1	82	0
FEB. 01...	1030	--	4.4	40	0	33	7.8	15	1.5	122	0
MAR. 01...	1010	591	3.7	140	0	23	5.5	11	1.3	72	0
29...	0940	445	3.5	50	0	29	6.6	12	1.2	99	0
APR. 27...	0955	1070	3.2	40	30	16	3.9	8.1	.7	51	0
MAY 25...	0955	527	3.3	10	0	25	6.0	8.0	1.0	84	0
JUNE 22...	0900	--	2.3	20	0	31	7.9	13	2.1	108	0
JULY 21...	1145	--	3.8	30	0	28	7.4	16	1.0	102	0
AUG. 18...	1100	460	3.1	40	0	38	10	26	2.0	136	0
SEP. 14...	1050	354	3.9	40	10	27	6.6	12	1.7	92	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT. 27...	67	18	14	.1	.06	--	.85	.19	3.7	.50
DEC. 02...	64	19	13	.1	.16	--	.36	.53	2.1	.49
JAN. 06...	67	21	32	.0	.50	--	.92	.22	5.4	.56
FEB. 01...	100	25	21	.0	.29	--	.09	1.2	2.0	.46
MAR. 01...	59	18	19	.0	.98	--	.16	.37	3.6	.73
29...	81	20	19	.0	.98	--	.30	.28	3.5	.48
APR. 27...	42	12	12	.0	.31	--	.18	.09	2.8	.27
MAY 25...	69	15	12	.0	.53	--	.48	.10	3.0	.39
JUNE 22...	89	21	18	.0	.94	--	.08	.11	6.7	--
JULY 21...	84	24	20	.0	.54	1.7	.54	.38	3.2	.61
AUG. 18...	112	27	29	.2	.46	1.9	1.4	.58	2.8	.64
SEP. 14...	75	22	15	.1	1.1	2.7	.34	.07	6.6	.74

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01333360 HOOSIC RIVER AT NORTH PETERSBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUR-STANCE (MG/L)
OCT.										
27...	118	121	28	78	11	172	7.2	4	11	.04
DEC.										
02...	119	120	8	77	13	219	7.4	4	8	.06
JAN.										
06...	139	159	10	88	22	297	7.5	5	13	.05
FEB.										
01...	175	172	13	115	15	314	7.4	4	16	.12
MAR.										
01...	123	123	1	80	21	236	7.2	5	9	.05
29...	164	146	42	99	18	262	7.6	6	6	.03
APR.										
27...	89	84	18	56	14	158	7.3	4	9	.02
MAY										
25...	--	116	--	87	18	208	7.6	--	7	.03
JUNE										
22...	--	156	--	110	21	275	7.4	--	13	.06
JULY										
21...	--	156	--	100	17	282	7.7	--	19	.05
AUG.										
18...	--	208	--	140	25	371	7.6	--	14	.09
SEP.										
14...	--	142	--	95	19	246	7.3	--	18	.07

01335500 HUDSON RIVER AT MECHANICVILLE, N.Y.

LOCATION.--Lat 42°54'45", long 73°40'45", Saratoga County, at intake of Westvaco Corporation on west bank at Mechanicville.

DRAINAGE AREA.--4,500 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1954 to April 1971 (discontinued).

EXTREMES.--1970-71:
Water temperatures: Minimum, freezing point on many days during winter period.

Period record:
Water temperatures: Maximum, 30.5°C July 8, 1964; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature record furnished by Westvaco Corporation.

TEMPERATURE (°C) OF WATER, OCTOBER 1970 TO APRIL 1971
(TWICE-DAILY MEASUREMENTS AT 0700 AND 1900)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	15.5	15.5	8.5	9.0	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
2	15.5	15.0	8.5	9.0	3.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
3	14.5	13.5	8.5	9.0	3.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
4	14.5	14.0	8.5	9.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
5	13.5	13.5	8.5	8.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
6	13.0	13.0	8.0	8.0	1.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
7	13.0	13.5	8.0	8.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
8	13.0	14.0	6.5	8.0	0.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
9	13.5	14.0	8.0	7.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
10	14.0	14.5	6.5	8.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
11	15.0	15.5	6.5	7.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
12	15.5	15.0	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
13	15.5	15.0	6.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	15.5	15.0	8.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
15	15.5	15.5	7.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.5
16	15.5	15.5	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5
17	14.5	14.5	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5
18	13.5	12.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
19	12.0	11.5	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.0
20	11.0	10.5	6.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0
21	10.5	11.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0
22	11.0	11.0	5.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.0
23	11.0	11.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
24	11.5	11.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5
25	11.5	11.0	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
26	11.5	11.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0
27	10.0	10.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.0
28	10.0	9.5	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
29	9.5	10.0	3.0	3.0	0.0	0.0	0.0	0.0	---	---	1.5	2.0
30	9.0	9.5	3.5	4.0	0.0	0.0	0.0	0.0	---	---	1.5	3.0
31	9.0	9.0	---	---	0.0	0.0	0.0	0.0	---	---	2.0	3.0

	APRIL	
DAY	AM	PM
1	2.0	3.0
2	2.0	3.0
3	3.0	3.5
4	3.0	3.5
5	2.0	3.5
6	3.0	3.0
7	3.0	3.0
8	2.0	3.0
9	2.0	3.0
10	3.5	2.0
11	2.0	3.0
12	2.0	4.5
13	4.0	5.0
14	4.0	3.5
15	3.0	3.0
16	3.0	3.0
17	2.0	2.0
18	3.0	3.0
19	2.0	2.0
20	2.0	2.0
21	3.0	3.0
22	5.0	5.0
23	4.5	4.0
24	3.5	3.5
25	3.5	3.0
26	3.5	4.0
27	3.5	5.0
28	4.5	4.5
29	4.5	4.5
30	4.5	4.5
31	---	---

01335770 HUDSON RIVER AT WATERFORD, N.Y.

LOCATION.--Lat 42°47'17", Long 73°40'34", Saratoga County, at Waterford water supply intake on west shore and 0.3 mile upstream from bridge on US Highway 4 in Waterford.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
15...	0905	E4200	3.3	260	0	13	2.6	6.8	.6	25	0
27...	0835	E6000	3.6	110	0	13	2.5	5.8	.7	28	0
30...	1100	E5200	4.3	--	--	12	2.5	5.8	.0	26	0
NOV.											
10...	0820	E3520	3.5	130	50	12	2.3	10	.5	30	0
DEC.											
02...	0815	E7200	4.4	100	0	13	2.9	5.1	.5	34	0
18...	0855	E6000	4.2	90	30	13	2.7	6.4	.5	30	0
JAN.											
06...	0845	E6500	4.5	110	20	15	2.9	6.0	.5	40	0
20...	0805	E5300	4.9	150	50	16	3.0	7.4	.6	42	0
FEB.											
01...	0910	E3500	5.5	220	60	16	2.7	9.0	.6	33	0
17...	0830	E5300	5.3	160	50	14	3.2	9.2	.8	42	0
MAR.											
01...	0900	E9900	5.0	150	0	16	3.5	7.1	1.2	49	0
17...	0905	E15100	5.0	140	0	17	3.4	5.7	1.1	48	0
29...	0830	E3590	5.9	180	70	18	3.9	8.5	.8	48	0
APR.											
14...	0845	E22300	5.1	160	0	14	3.0	4.2	.7	41	0
27...	0845	E10500	5.1	100	20	11	2.3	3.0	.4	31	0
MAY											
13...	0845	E30300	4.6	50	0	8.5	1.6	2.0	.4	21	0
25...	0830	E8000	4.2	120	0	10	2.0	2.3	.4	25	0
JUNE											
09...	0945	E3200	4.0	280	0	14	2.6	4.5	.6	41	0
22...	1400	E4620	4.5	400	0	16	2.9	5.1	.8	33	0
JULY											
07...	1430	E2540	3.9	210	0	16	3.5	5.2	.7	40	0
21...	1030	E5540	3.6	210	0	12	2.7	4.5	.8	31	0
AUG.											
03...	1230	E3350	3.4	200	50	14	2.9	5.8	1.0	34	0
17...	1000	E2670	3.5	220	10	16	2.9	6.0	.6	30	0
31...	1900	E6800	4.3	100	0	11	2.6	3.9	.8	32	0
SEP.											
14...	0945	E3900	3.7	140	0	14	2.8	7.0	.8	35	0
29...	1200	E6710	4.5	160	0	13	2.3	4.2	.6	28	0
29...	1230	--	4.6	190	0	17	2.5	3.5	.5	30	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.											
15...	21	20	10	.3	.52	--	1.2	.57	3.5	.10	94
27...	23	18	8.0	.0	.24	--	.07	.66	.9	.09	99
30...	21	19	9.3	.1	--	--	.04	.83	1.2	--	87
NOV.											
10...	25	18	12	.2	.29	--	.04	.35	.7	.11	99
DEC.											
02...	28	16	6.9	.1	.17	--	.04	.26	1.3	.44	79
18...	25	17	10	.1	.39	--	.11	.56	1.9	.27	74
JAN.											
06...	33	16	8.0	.1	.32	--	.05	.40	1.6	.20	68
20...	34	20	7.8	.1	.37	--	.06	.50	2.0	.22	80
FEB.											
01...	27	24	14	.1	.64	--	.04	.60	2.0	.06	99
17...	34	22	14	.0	.48	--	.04	1.3	1.9	.17	103
MAR.											
01...	40	20	10	.0	.81	--	.08	.34	3.0	.28	92
17...	39	18	9.2	.0	.51	--	.05	.39	3.2	.33	112
29...	39	20	13	.0	.74	--	.02	.35	2.9	.12	95
APR.											
14...	34	16	6.1	.0	.45	--	.04	.24	2.5	.20	86
27...	25	11	4.7	.0	.22	--	.01	.07	1.7	.08	64
MAY											
13...	17	9.7	3.1	.0	.76	--	.04	.10	1.8	.09	--
25...	21	11	4.6	.0	.31	--	.01	.07	1.3	.12	--
JUNE											
09...	34	12	6.5	.0	.44	--	.01	.06	2.4	.02	--
22...	27	17	13	.0	.47	--	.41	.17	2.8	.09	--
JULY											
07...	33	14	13	.0	.39	1.2	.16	.39	2.1	.09	--
21...	25	16	6.6	.0	.66	1.5	.13	.52	1.8	.21	--
AUG.											
03...	28	15	8.5	.0	.54	1.1	.10	.10	1.9	.12	--
17...	25	17	15	.0	.33	.99	.19	.36	1.4	.12	--
31...	26	13	6.0	.0	.92	1.6	.05	.51	1.5	.12	--
SEP.											
14...	29	16	9.5	.0	.71	1.4	.10	.25	2.1	.09	--
29...	23	12	10	.0	.58	1.0	.04	.29	1.0	.09	--
29...	25	13	18	.0	.52	1.2	.04	.55	1.1	.15	--

01335770 HUDSON RIVER AT WATERFORD, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
15...	74	31	43	22	135	6.8	--	50	26	.04
27...	68	44	42	19	127	6.7	--	30	44	.05
30...	69	24	40	19	128	6.4	12.5	35	--	--
NOV.										
10...	74	33	40	15	140	6.5	--	35	28	.08
DEC.										
02...	68	7	44	16	121	6.9	--	24	17	.04
18...	72	0	44	19	123	6.7	--	11	20	.06
JAN.										
06...	75	30	49	17	132	6.8	--	17	21	.06
20...	83	1	52	18	147	6.8	--	25	27	.06
FEB.										
01...	91	39	51	24	148	7.0	--	29	51	.13
17...	93	37	48	14	160	6.8	--	30	3	.04
MAR.										
01...	91	3	54	14	158	7.0	--	25	19	.04
17...	87	29	56	17	151	7.1	--	20	14	.04
29...	97	26	61	22	170	7.0	--	40	16	.06
APR.										
14...	72	27	47	14	127	7.2	--	26	11	.03
27...	54	27	36	12	97	7.2	--	12	10	.02
MAY										
13...	43	--	27	11	68	7.0	--	--	16	.01
25...	48	--	33	13	84	7.0	--	--	11	.03
JUNE										
09...	67	--	45	12	123	7.3	--	--	30	.04
22...	79	--	51	25	136	7.1	--	--	9	.04
JULY										
07...	79	--	54	22	142	7.2	--	--	24	.04
21...	65	--	41	16	113	7.1	--	--	21	.04
AUG.										
03...	70	--	47	19	129	7.3	--	--	9	.04
17...	78	--	52	27	139	6.9	--	--	32	.07
31...	61	--	38	12	105	7.0	--	--	14	.03
SEP.										
14...	74	--	46	18	124	6.9	--	--	13	.05
29...	62	--	42	19	114	7.0	--	--	19	.04
29...	76	--	53	28	137	6.9	--	--	18	.05

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.										
30...	0	0	0	0	210	0	40	<.5	<.5	50

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, N.Y.

LOCATION.--Lat 43°15'52", long 75°26'12", Oneida County, temperature recorder at gaging station on right bank at Rome Fish Hatchery, 1.0 mile downstream from Delta Dam, and 4.0 miles north of Rome.

DRAINAGE AREA.--150 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1960 to September 1962, October 1963 to December 1965, September 1966 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 20.0°C on Aug. 14, 18, 26; minimum, freezing point Feb. 27 to Mar. 1, Mar. 6-8.

Period of record:
Water temperatures (1960-62, 1963-71): Maximum, 24.0°C on several days during September 1961 and July 1962; minimum, freezing point on many days during winter periods 1967 and 1971.

REMARKS.--Prior to May 1964 water temperature measurements were made at Delta Dam, 1 mile upstream from present site. Thermograph installed September 1966.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	18.0	14.0	14.0	8.0	8.0	4.0	4.0	3.0	2.0	0.5	0.0
2	18.0	17.0	14.0	13.5	8.0	8.0	4.0	4.0	2.0	2.0	0.5	0.5
3	17.0	17.0	13.5	13.5	8.0	8.0	4.0	3.5	2.0	2.0	0.5	0.5
4	17.0	16.5	13.5	13.5	8.0	7.0	3.5	3.5	2.0	2.0	0.5	0.5
5	16.5	16.5	13.5	13.0	7.0	7.0	3.5	3.5	2.0	2.0	0.5	0.5
6	16.5	16.0	13.0	13.0	7.0	6.5	3.5	3.5	2.0	2.0	0.5	0.0
7	16.0	16.0	13.0	12.0	6.5	6.0	3.5	3.5	2.0	2.0	0.5	0.0
8	16.0	15.5	13.0	12.0	6.0	6.0	3.5	3.5	2.0	2.0	0.5	0.0
9	16.0	15.5	12.0	12.0	6.0	5.5	3.5	3.5	2.0	1.5	0.5	0.5
10	16.0	15.5	12.0	12.0	5.5	5.0	3.5	3.5	1.5	1.5	1.5	0.5
11	15.5	15.5	12.0	11.5	5.0	5.0	3.5	3.5	1.5	1.5	1.0	1.0
12	15.5	15.5	11.5	11.5	5.0	5.0	3.5	3.5	1.5	1.5	1.0	0.5
13	15.5	15.5	11.5	11.5	5.0	5.0	3.5	3.5	1.5	1.5	1.0	0.5
14	16.0	15.5	11.5	11.5	5.0	4.5	3.5	3.5	1.5	1.5	1.0	0.5
15	15.5	15.5	11.5	11.5	4.5	4.5	3.5	3.0	1.5	1.5	1.0	0.5
16	15.5	15.5	11.5	11.0	4.5	4.5	3.0	3.0	1.5	1.5	1.0	0.5
17	16.0	15.5	11.0	11.0	4.5	4.5	3.0	3.0	1.5	1.5	1.0	0.5
18	15.5	15.5	11.0	10.5	4.5	4.0	3.0	3.0	1.5	1.5	1.0	0.5
19	15.5	15.0	10.5	10.5	4.0	4.0	3.0	3.0	1.5	1.0	1.0	0.5
20	15.5	15.0	10.5	10.5	4.0	4.0	3.0	3.0	1.0	0.5	1.0	0.5
21	15.0	15.0	10.5	10.0	3.5	3.5	3.0	3.0	0.5	0.5	1.0	0.5
22	15.0	14.5	10.0	10.0	3.5	3.5	3.0	3.0	0.5	0.5	1.0	0.5
23	14.5	14.5	10.0	9.5	3.5	3.5	3.0	3.0	0.5	0.5	1.0	0.5
24	14.5	14.0	9.5	9.0	3.5	3.5	3.0	3.0	0.5	0.5	1.0	1.0
25	14.0	14.0	9.0	8.5	3.5	3.5	3.0	3.0	0.5	0.5	1.0	0.5
26	14.0	13.5	8.5	8.5	3.5	3.5	3.0	3.0	0.5	0.5	1.0	0.5
27	13.5	13.5	8.5	8.5	4.0	3.5	3.0	3.0	0.5	0.0	1.0	0.5
28	14.0	13.5	8.5	8.0	4.0	4.0	3.0	3.0	0.5	0.0	1.0	1.0
29	14.5	14.0	8.0	8.0	4.0	4.0	3.0	3.0	---	---	1.0	1.0
30	14.5	14.0	8.0	8.0	4.0	4.0	3.0	2.0	---	---	1.0	1.0
31	14.0	14.0	---	---	4.0	4.0	3.0	2.0	---	---	1.0	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	1.0	3.0	3.0	10.5	9.5	11.5	11.5	18.5	18.0	19.0	18.0
2	1.0	1.0	3.5	3.0	10.0	9.5	12.0	11.5	18.5	18.0	18.5	18.0
3	1.0	1.0	4.0	3.5	10.0	9.5	13.5	12.0	18.0	18.0	18.5	18.5
4	1.0	1.0	4.0	4.0	10.5	9.5	13.5	12.0	18.0	17.0	18.5	18.5
5	1.5	1.0	4.0	4.0	10.5	9.5	13.5	12.0	19.5	18.0	18.5	18.5
6	1.5	1.0	5.0	4.0	10.5	9.5	13.0	12.0	19.5	18.0	19.0	18.5
7	1.5	1.0	5.5	5.0	10.5	9.5	13.5	12.0	19.0	17.0	19.0	18.5
8	1.5	1.0	5.0	5.0	10.5	9.5	13.5	13.0	19.5	18.0	19.0	18.0
9	1.5	1.0	5.5	5.0	10.5	10.0	14.0	13.5	19.5	18.5	18.5	18.0
10	1.0	1.0	6.5	5.5	11.0	9.5	14.5	13.5	19.0	18.5	19.0	18.0
11	1.5	1.0	6.5	6.0	11.0	10.0	14.0	14.0	19.0	18.0	18.5	18.5
12	1.5	1.0	6.5	6.0	11.0	10.0	14.5	13.5	19.5	18.5	18.5	18.5
13	1.0	0.5	9.0	6.5	10.5	10.0	14.5	14.0	19.5	18.5	18.5	18.5
14	1.0	1.0	8.5	6.0	10.5	10.0	14.5	14.0	20.0	18.5	18.5	18.0
15	1.0	1.0	9.0	8.5	10.5	10.0	15.0	14.0	19.5	19.0	18.5	18.0
16	1.0	1.0	8.5	8.0	11.0	10.0	15.5	15.0	19.5	18.5	18.5	18.0
17	1.0	1.0	9.0	8.0	11.0	10.0	15.0	15.0	19.5	18.5	18.5	18.5
18	1.0	1.0	9.5	9.5	11.0	10.0	16.0	14.5	20.0	18.0	18.5	18.5
19	1.0	1.0	9.5	9.0	11.0	10.0	15.5	15.0	19.5	19.0	18.5	18.0
20	2.0	1.0	9.5	9.0	11.0	10.0	15.5	15.0	19.5	19.0	18.0	18.0
21	1.5	1.0	9.5	9.0	10.5	10.0	16.0	14.5	19.0	19.0	18.0	16.5
22	1.5	1.5	9.5	9.5	11.0	10.0	16.5	15.0	19.5	19.0	16.5	15.5
23	1.5	1.0	10.0	9.0	11.0	10.0	17.0	15.5	19.5	19.0	16.0	15.5
24	1.5	1.5	9.5	9.0	11.0	10.5	17.0	16.0	19.5	19.0	15.5	15.5
25	1.5	1.5	9.5	9.0	11.0	10.5	17.0	16.0	19.5	19.0	15.5	15.5
26	2.0	1.5	9.0	9.0	11.5	10.5	18.0	16.5	20.0	19.5	15.5	15.5
27	3.5	2.0	9.5	9.0	11.5	10.5	18.0	16.5	19.5	19.0	15.5	15.5
28	3.0	3.0	9.5	9.0	11.5	11.0	18.5	16.5	19.0	19.0	15.5	15.5
29	3.0	3.0	10.0	9.0	11.5	11.0	18.0	18.0	19.0	19.0	15.5	15.0
30	3.0	3.0	10.0	9.0	11.5	11.0	19.0	17.0	19.0	18.5	15.0	15.0
31	---	---	10.5	9.0	---	---	18.5	18.0	19.0	18.5	---	---

01340000 MOHAWK RIVER AT UTICA, N.Y.

LOCATION.--Lat 43°06'05", long 75°12'10", Oneida County, at intake of Beaunit Fibers Division of Beaunit Corporation on State Highway 5S (Broad St.) in Utica, and 1 mile downstream from Genesee Street Bridge.

DRAINAGE AREA.--514 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1960 to March 1971 (discontinued).

EXTREMES.--1970-71:
Water temperatures: Minimum, 0.5°C on many days during December to February.

Period of record:
Water temperatures: Maximum, 27.0°C July 18, 19, 1968; minimum, 0.5°C on many days during December 1970 to February 1971.

COOPERATION.--Water temperature record furnished by the Beaunit Corporation.

TEMPERATURE (°C) OF WATER, OCTOBER 1970 TO MARCH 1971
(ONCE-DAILY MEASUREMENT BETWEEN 0900 AND 1500)

DAY	OCT	NOV	DEC	JAN	FEB	MAR
1	14.5	11.5	6.0	0.5	0.5	3.0
2	14.5	12.0	6.0	1.0	0.5	1.5
3	14.0	11.5	6.0	1.0	0.5	1.5
4	13.0	12.0	6.0	1.0	1.0	1.0
5	12.0	11.5	6.5	1.5	1.0	1.5
6	13.5	10.5	7.0	2.0	1.0	2.0
7	12.0	10.5	3.5	2.0	1.5	2.0
8	15.0	10.0	2.0	2.0	1.5	2.0
9	14.5	10.0	2.0	2.0	0.5	2.0
10	14.0	9.0	3.0	2.0	0.5	2.0
11	16.0	9.5	3.0	1.5	1.5	1.5
12	17.0	11.0	2.0	1.5	2.0	1.5
13	17.0	11.0	2.0	0.5	1.5	2.0
14	17.0	11.5	1.5	1.0	1.5	2.0
15	17.0	10.0	2.0	1.5	1.0	1.5
16	16.0	9.0	1.5	0.5	2.0	1.5
17	14.0	8.0	2.0	0.5	1.0	2.0
18	13.0	8.0	1.5	0.5	1.0	2.0
19	11.5	8.5	1.5	0.5	1.0	2.0
20	11.5	8.5	2.0	0.5	2.0	2.0
21	11.0	7.0	1.5	1.0	3.5	2.0
22	11.5	5.5	1.0	1.5	2.0	3.0
23	13.0	6.5	0.5	1.5	1.5	2.0
24	13.5	6.0	0.5	1.0	1.5	2.0
25	14.0	4.5	0.5	1.5	1.5	3.0
26	14.0	4.0	0.5	1.5	1.5	2.0
27	13.5	4.0	0.5	0.5	2.0	3.0
28	12.0	5.0	0.5	0.5	3.0	3.0
29	11.0	5.5	0.5	1.0	---	3.5
30	11.0	6.0	0.5	0.5	---	3.5
31	11.5	---	0.5	0.5	---	3.5
AVERAGE	13.5	8.5	2.5	1.5	1.5	2.5

01349520 CAYADUTTA CREEK AT FONDA, N.Y.

LOCATION.--Lat 42°57'10", Long 74°22'49", Montgomery County, at railroad bridge, 0.1 mile downstream from bridge on State Highway 5 in Fonda and 0.2 mile upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 07...	1445	8.8	100	160	85	9.0	178	3.8	186	0	153
NOV. 02...	1455	8.7	40	10	66	8.7	49	3.2	224	0	184
DEC. 10...	1515	7.9	210	50	77	7.7	230	3.4	234	0	192
JAN. 12...	1450	8.9	120	70	84	7.5	230	6.8	294	0	241
FEB. 09...	1610	8.0	150	0	78	7.8	260	3.8	283	0	232
MAR. 09...	--	7.5	200	0	67	6.9	120	2.9	216	0	177
APR. 06...	1450	5.7	90	0	54	6.0	80	2.2	166	0	136
MAY 06...	1505	5.1	120	0	38	5.2	48	2.0	138	0	113
JUNE 03...	1340	7.2	80	160	100	30	290	3.8	328	0	269
29...	1215	8.2	60	0	76	9.5	120	3.1	204	0	167
JULY 27...	1500	6.8	160	40	61	6.1	110	3.7	215	0	176
AUG. 24...	1230	7.4	110	70	64	9.6	130	4.1	234	0	192
SEP. 21...	1200	7.6	140	20	78	7.5	180	7.8	282	0	231

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 07...	100	238	.8	.91	--	.06	12	5.3	11	729
NOV. 02...	39	58	.3	1.1	--	.02	5.0	6.5	17	362
DEC. 10...	85	352	1.0	3.8	--	.06	12	.1	3.0	912
JAN. 12...	172	292	1.0	9.5	--	.08	29	.2	6.8	930
FEB. 09...	113	375	.7	30	--	.09	40	.0	10	924
MAR. 09...	65	168	.6	3.2	--	.05	9.6	1.9	4.2	534
APR. 06...	50	110	.2	2.4	--	.38	3.6	4.6	3.0	402
MAY 06...	33	65	.3	1.9	--	.17	6.3	.1	1.7	272
JUNE 03...	120	440	.1	17	--	.09	.20	1.9	10	--
29...	85	160	.9	3.8	9.3	.13	7.0	.4	2.5	--
JULY 27...	57	160	.3	2.1	9.8	.28	9.6	.7	.03	--
AUG. 24...	92	110	.8	4.1	16	.03	16	.3	.83	--
SEP. 21...	98	260	.7	15	45	.03	38	.1	6.4	--

01349520 CAYADUTTA CREEK AT FONDA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUR-STANCE (MG/L)
OCT.										
07...	744	37	249	96	1310	7.0	31	68	--	.04
NOV.										
02...	372	31	201	17	629	7.4	100	59	--	.58
DEC.										
10...	898	39	224	32	1650	7.1	22	--	157	.64
JAN.										
12...	992	39	241	0	1680	7.2	7	--	380	.67
FEB.										
09...	1070	40	227	0	1770	7.4	25	--	457	.57
MAR.										
09...	563	17	196	19	967	7.6	25	--	84	.34
APR.										
06...	404	23	160	23	727	7.3	22	--	18	.38
MAY										
06...	275	27	116	3	493	7.4	26	--	66	.02
JUNE										
03...	1180	--	373	104	2100	7.4	--	--	280	.67
29...	577	--	230	62	1000	7.3	--	71	--	.16
JULY										
27...	523	--	180	1	908	7.3	--	--	94	.66
AUG.										
24...	554	--	200	7	902	7.5	--	--	88	.62
SEP.										
21...	839	--	230	0	1380	7.1	--	--	259	.67

01349527 MOHAWK RIVER AT FONDA, N.Y.

LOCATION.--Lat 42°57'01", Long 74°22'21", Montgomery County, at dock of State Department of Transportation Erie (Barge) Canal terminal in Fonda, 0.1 mile upstream from bridge on State Highway 30A, and 0.4 mile downstream from Cayadutta Creek.

PERIOD OF RECORD.--Chemical analyses: September 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
07...	1405	4.3	20	0	29	3.8	9.9	1.0	80	0
NOV.										
02...	1405	4.8	20	0	29	3.8	7.8	1.1	82	0
DEC.										
10...	1435	5.1	70	0	36	5.2	19	1.1	98	0
JAN.										
12...	1410	6.1	20	0	44	5.6	26	1.2	127	0
FEB.										
09...	1535	6.3	30	0	42	5.8	52	1.6	129	0
MAR.										
09...	1550	5.4	30	0	36	5.0	25	1.3	107	0
APR.										
06...	1415	4.7	20	0	42	5.7	21	1.6	124	0
MAY										
03...	1425	3.9	50	0	26	4.1	13	1.0	83	0
JUNE										
03...	1255	3.1	10	0	33	5.5	11	1.0	94	0
29...	1145	2.7	10	0	33	6.2	9.2	1.3	98	0
JULY										
27...	1415	1.6	30	0	38	5.6	24	1.8	110	0
AUG.										
24...	1200	2.7	30	0	32	5.6	13	1.2	95	0
SEP.										
21...	1200	4.3	60	0	34	5.2	8.5	1.3	99	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
07...	66	26	13	.2	.26	--	.56	.30	2.8	.68
NOV.										
02...	67	24	9.9	.0	.38	--	.01	.12	3.8	1.0
DEC.										
10...	80	32	25	.1	.93	--	.33	.12	3.7	1.9
JAN.										
12...	104	38	33	.2	.98	--	.20	.87	2.7	1.8
FEB.										
09...	106	45	70	.3	.74	--	.22	3.1	1.2	1.7
MAR.										
09...	88	28	36	.2	1.1	--	.01	.21	9.2	.56
APR.										
06...	102	28	32	.2	1.0	--	.09	.86	5.3	.97
MAY										
03...	68	18	17	.2	.74	--	.01	.17	7.2	.52
JUNE										
03...	77	28	16	.2	.54	--	.43	.51	2.1	.30
29...	80	27	14	.1	1.3	2.4	.15	.75	2.4	.43
JULY										
27...	90	34	32	.6	1.4	3.0	.09	.56	5.3	.95
AUG.										
24...	78	29	15	.2	.53	1.2	.10	.49	1.3	.43
SEP.										
21...	81	24	13	.1	.69	1.6	.01	.24	3.4	.55

01349527 MOHAWK RIVER AT FONDA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
07...	139	131	19	88	22	239	7.3	16	12	.02
NOV.										
02...	124	126	10	89	22	225	7.2	10	10	.04
DEC.										
10...	180	179	32	112	32	310	7.3	11	24	.04
JAN.										
12...	226	223	13	133	29	395	7.2	3	15	.08
FEB.										
09...	289	293	13	129	23	533	7.3	11	39	.07
MAR.										
09...	195	201	10	111	23	356	7.4	5	21	.06
APR.										
06...	195	204	27	128	27	365	7.4	14	18	.12
MAY										
03...	137	133	22	81	14	234	7.5	15	35	.05
JUNE										
03...	--	148	--	105	28	267	7.6	--	9	.05
29...	--	147	--	110	28	259	7.4	--	16	.05
JULY										
27...	--	200	--	120	28	363	7.3	--	29	.10
AUG.										
24...	--	148	--	100	25	259	7.6	--	10	.07
SEP.										
21...	--	144	--	110	25	252	7.4	--	24	.05

01353995 SCHOHARIE CREEK AT FORT HUNTER, N.Y.

LOCATION.--Lat 42°56'17", Long 74°16'57", Montgomery County, at bridge on State Highway 5S at Fort Hunter and 0.6 mile upstream from mouth.

DRAINAGE AREA.--926 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV.											
18...	1110	E222	.3	30	0	42	4.0	9.7	1.4	110	0
MAY											
07...	1345	E2650	2.2	30	0	17	2.2	3.6	.8	46	0
JULY											
27...	1330	E24	2.0	30	0	33	5.4	10	1.8	98	0
SEP.											
21...	1145	E320	2.5	50	0	38	4.5	7.6	2.2	110	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
NOV.										
18...	90	28	17	.0	.16	--	.02	.02	1.1	.08
MAY										
07...	38	13	6.7	.0	.24	--	.06	.20	1.2	.06
JULY										
27...	80	27	16	.1	.51	.83	.04	.26	.4	.43
SEP.										
21...	90	23	12	.0	.32	.50	.02	.13	.3	.06

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV.										
18...	163	158	7	121	31	296	7.9	7	14	.03
MAY										
07...	78	69	16	51	14	126	7.8	5	19	.03
JULY										
27...	--	145	--	110	26	262	8.0	--	13	.05
SEP.										
21...	--	145	--	110	23	259	8.0	--	6	.03

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, N.Y.

LOCATION.--Lat 42°55'03", Long 74°08'31", Montgomery County, at Erie (Barge) Canal Lock 10, 0.2 mile upstream from Evas Kill, 0.3 mile west of Cranesville, and 0.8 mile downstream from Terwilleger Creek.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
07...	1320	4.2	40	0	27	3.6	5.7	1.0	76	0	62
15...	1600	4.1	--	--	27	3.9	8.4	1.0	80	0	66
21...	1110	4.6	10	0	33	4.4	7.3	1.0	92	0	75
NOV.											
02...	1305	4.8	20	0	29	3.7	7.7	1.1	80	0	66
18...	1025	4.6	30	20	31	4.0	6.4	1.0	82	0	67
DEC.											
10...	1350	4.4	60	0	36	5.1	8.1	1.0	96	0	79
29...	1255	5.3	30	0	37	5.3	9.0	1.0	101	0	83
JAN.											
12...	1310	5.5	40	0	40	5.7	9.5	1.2	110	0	90
26...	1205	5.4	20	20	38	5.7	16	1.2	108	0	89
FEB.											
25...	1240	4.9	70	0	38	5.5	13	1.4	109	0	89
MAR.											
25...	1050	5.2	30	0	43	6.4	17	1.5	121	0	99
APR.											
06...	1315	4.3	70	0	36	5.2	6.1	1.4	103	0	84
22...	1315	3.6	60	0	24	3.8	3.2	.9	73	0	60
MAY											
03...	1310	3.3	80	0	22	3.4	3.8	.9	63	0	52
19...	1410	2.9	20	0	21	3.2	4.8	.7	60	0	49
JUNE											
03...	1155	2.2	50	0	32	4.8	5.7	1.0	89	0	73
15...	1330	1.1	20	0	36	6.2	13	1.4	107	0	88
29...	1100	1.8	20	0	37	7.0	15	1.5	108	0	89
JULY											
14...	1330	.0	10	0	36	5.4	8.1	1.2	98	0	80
27...	1200	.1	30	0	32	5.1	12	1.6	93	0	76
AUG.											
10...	1300	3.6	50	0	28	4.5	6.6	1.3	83	0	68
24...	--	.8	10	0	36	6.1	16	1.2	106	0	87
SEP.											
08...	0830	2.5	30	0	29	4.8	11	1.4	84	0	69
21...	1100	4.0	60	0	29	4.4	6.3	1.2	80	0	66

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.											
07...	24	8.0	.1	.34	--	.58	.20	2.2	.35	125	114
15...	25	12	.3	--	--	.02	.15	3.2	--	136	124
21...	28	8.8	.2	.25	--	.68	.34	2.5	.45	147	136
NOV.											
02...	25	12	.0	.55	--	.01	.16	2.6	.31	140	126
18...	25	9.7	.1	.31	--	.00	.08	2.8	.44	136	125
DEC.											
10...	30	12	.2	1.6	--	.26	.09	3.3	1.6	148	149
29...	30	15	.1	.54	--	.21	.48	2.9	.52	155	157
JAN.											
12...	34	14	.1	.54	--	.05	.65	3.1	.54	177	169
26...	40	22	.2	.44	--	.36	1.4	3.6	1.2	194	189
FEB.											
25...	29	23	.1	.55	--	.28	.33	4.2	.50	170	174
MAR.											
25...	30	27	.1	.87	--	.08	.68	4.7	.56	216	197
APR.											
06...	22	10	.0	.27	--	.19	.11	5.4	.36	134	142
22...	15	3.2	.1	.50	--	.13	.09	3.6	.33	105	94
MAY											
03...	16	8.2	.0	.33	--	.19	.08	2.6	.18	95	92
19...	15	6.6	.0	.34	--	.07	.22	2.6	.17	--	87
JUNE											
03...	22	8.8	.1	.68	--	.15	.27	.1	.21	--	122
15...	28	18	.1	1.6	--	.01	.13	4.1	.34	--	163
29...	33	21	.1	.92	2.3	.20	.98	2.8	.80	--	175
JULY											
14...	27	10	.0	.70	1.4	.13	.13	2.7	.71	--	140
27...	25	18	.2	.70	1.5	.79	.27	1.7	.49	--	144
AUG.											
10...	20	9.7	.1	.39	.98	.16	.37	1.1	.31	--	117
24...	32	21	.3	.69	1.4	.13	.48	1.7	.43	--	169
SEP.											
08...	25	14	.2	.95	1.8	.14	.24	2.8	.37	--	134
21...	20	9.6	.2	.57	1.2	.02	.10	2.5	.40	--	118

CONTINUED NEXT PAGE

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
07...	21	82	20	203	7.6	--	11	--	10	.02
15...	19	84	18	221	7.6	16.5	5	9.6	--	--
21...	27	100	25	242	7.7	--	11	--	10	.02
NOV.										
02...	16	88	22	226	7.4	--	15	--	9	.03
18...	8	92	25	225	7.7	--	12	--	10	.04
DEC.										
10...	10	111	32	255	7.4	--	5	--	11	.04
29...	--	114	31	275	7.3	--	11	--	21	.04
JAN.										
12...	32	124	36	300	7.5	--	5	--	--	.04
26...	6	118	30	330	7.4	--	10	--	15	.06
FEB.										
25...	10	120	31	308	7.7	--	10	--	17	.05
MAR.										
25...	64	136	36	352	7.5	--	12	--	13	.06
APR.										
06...	17	111	27	256	7.7	--	14	--	9	.04
22...	31	75	16	170	7.8	--	10	--	12	.03
MAY										
03...	17	68	17	160	7.7	--	14	--	9	.03
19...	--	65	16	157	7.5	--	--	--	6	.03
JUNE										
03...	--	99	27	219	7.8	--	--	--	11	.04
15...	--	115	28	280	7.7	--	--	--	9	.04
29...	--	120	33	309	7.6	--	--	--	14	.05
JULY										
14...	--	110	32	247	7.6	--	--	--	20	.04
27...	--	100	25	269	7.5	--	--	--	9	.05
AUG.										
10...	--	88	20	209	7.7	--	--	--	13	.04
24...	--	120	28	300	7.5	--	--	--	11	.06
SEP.										
08...	--	92	23	233	7.6	--	--	--	16	.05
21...	--	91	25	203	7.4	--	--	--	12	.05

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.										
15...	10	1	0	0	330	1	0	0.5	0.8	0

01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.

LOCATION.--Lat 42°49'07", Long 73°56'59", Schenectady County, at abutment of former bridge at end of Washington Avenue in Schenectady, 0.3 mile downstream from Western Gateway Bridge, and 1.0 mile upstream from Collins Creek.

PERIOD OF RECORD.--Chemical analyses: April 1969 to Septmeber 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
07...	1210	4.3	30	0	30	4.0	10	1.3	86	0
21...	1010	4.1	20	0	32	4.2	9.5	1.1	88	0
NOV.										
02...	1215	4.9	20	0	30	3.8	7.2	1.3	82	0
DEC.										
10...	1255	4.8	90	0	33	4.8	7.8	.9	98	0
29...	--	5.1	20	0	37	5.0	7.5	1.0	98	0
JAN.										
12...	1210	5.4	60	30	40	5.1	8.5	1.1	100	0
26...	1045	5.5	40	10	37	5.0	9.6	1.0	94	0
FEB.										
09...	1350	5.8	110	0	39	5.7	14	1.2	110	0
25...	1010	4.5	120	0	36	5.3	13	1.4	98	0
MAR.										
09...	1440	5.0	30	0	36	4.7	11	1.3	100	0
25...	1000	5.0	80	0	45	6.5	13	1.5	121	0
APR.										
06...	1215	4.2	100	0	37	5.1	10	1.7	108	0
22...	1215	3.5	100	0	23	3.5	3.7	.9	71	0
MAY										
03...	1225	3.5	80	0	24	4.0	4.6	.9	70	0
19...	1315	3.1	40	0	24	3.8	5.8	.8	70	0
JUNE										
03...	1110	1.9	10	0	33	5.5	6.8	1.0	96	0
15...	1430	.3	30	90	36	6.4	12	1.4	112	0
29...	1330	1.8	30	0	40	7.6	14	1.6	115	0
JULY										
14...	1500	.4	20	0	40	9.8	9.4	1.4	118	0
27...	1600	.2	20	0	34	9.4	12	1.5	98	0
AUG.										
10...	1600	2.1	110	0	30	6.9	7.5	1.5	88	0
24...	1610	.7	20	10	16	5.8	9.8	1.1	102	0
SEP.										
08...	0945	2.2	30	50	29	5.0	12	1.6	87	0
21...	1600	5.7	50	0	32	9.0	10	1.3	93	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
07...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
21...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
NOV.										
02...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
DEC.										
10...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
29...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
JAN.										
12...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
26...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
FEB.										
09...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
25...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
MAR.										
09...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
25...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
APR.										
06...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
22...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
MAY										
03...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
19...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
JUNE										
03...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]
15...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
JULY										
14...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUG.										
10...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SEP.										
08...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01354490 MOHAWK RIVER AT SCHENECTADY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
07...	142	137	14	92	21	249	7.4	17	11	.02
21...	144	136	20	97	25	245	7.7	13	19	.04
NOV.										
02...	124	126	25	90	23	234	7.4	14	10	.04
DEC.										
10...	140	143	16	102	22	238	7.5	14	11	.04
29...	149	149	15	110	32	258	7.6	10	9	.06
JAN.										
12...	159	157	25	121	39	281	7.7	8	10	.06
26...	161	156	17	113	36	278	7.5	5	7	.06
FEB.										
09...	176	178	14	121	31	319	7.5	7	10	.05
25...	173	168	10	112	32	303	7.6	16	15	.04
MAR.										
09...	171	155	11	109	27	279	7.7	5	6	.03
25...	220	191	44	139	40	334	7.7	6	8	.05
APR.										
06...	176	159	26	113	25	287	7.8	21	13	.04
22...	101	93	19	71	14	167	7.7	10	17	.03
MAY										
03...	105	99	20	76	19	178	7.6	13	14	.06
19...	--	102	--	75	18	181	7.4	--	13	.04
JUNE										
03...	--	135	--	105	26	243	7.6	--	14	.04
15...	--	162	--	116	24	290	7.9	--	9	.04
29...	--	180	--	130	37	318	7.6	--	16	.05
JULY										
14...	--	167	--	120	27	279	7.7	--	15	.05
27...	--	150	--	110	26	269	7.8	--	10	.05
AUG.										
10...	--	126	--	95	23	229	7.6	--	20	.06
24...	--	147	--	110	25	262	7.6	--	9	.06
SEP.										
08...	--	138	--	93	22	236	7.6	--	18	.04
21...	--	142	--	120	24	247	7.4	--	15	.07

01356000 MOHAWK RIVER AT VISCHER FERRY DAM, N.Y.

LOCATION.--Lat 42°48'27", long 73°50'39", Saratoga County, at bridge crossing headrace of Vischer Ferry powerplant, operated by State of New York Department of Transportation at Vischer Ferry Dam.

DRAINAGE AREA.--3,385 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1951 to September 1953.
Water temperatures: October 1951 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 26.5°C on July 4, 6, 7; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 29.5°C Aug. 1955; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature record furnished by the State of New York Department of Transportation.

TEMERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(TWICE-DAILY MEASUREMENTS AT 0800 and 1600)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	17.0	17.0	7.0	8.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
2	17.0	17.0	7.0	8.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
3	17.0	16.5	9.0	9.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
4	16.5	16.5	8.0	8.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
5	16.0	17.0	8.0	7.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
6	15.5	15.5	8.0	8.0	4.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
7	16.0	15.5	8.0	8.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
8	16.0	16.0	7.0	7.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
9	16.0	15.5	7.0	7.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	16.0	16.0	8.0	8.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
11	16.0	16.0	9.0	9.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
12	16.0	16.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	15.5	15.5	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
14	16.0	16.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	16.0	16.5	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	16.0	16.0	8.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
17	15.0	15.0	6.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	15.0	15.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	14.5	14.5	6.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	13.5	13.5	6.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	13.5	13.5	6.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	13.5	13.5	6.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	13.5	13.5	6.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
24	13.5	13.5	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
25	13.5	13.5	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
26	13.5	12.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
27	11.5	11.5	6.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
28	12.0	11.5	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0
29	8.5	8.5	6.5	6.5	0.0	0.0	0.0	0.0	---	---	1.5	1.5
30	8.0	8.0	6.5	6.5	0.0	0.0	0.0	0.0	---	---	1.5	1.5
31	7.0	7.0	--	---	0.0	0.0	0.0	0.0	---	---	3.5	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	[illegible]	[illegible]	[illegible]	[illegible]	16.0	17.0	[illegible]	[illegible]	[illegible]	[illegible]	20.5	20.5
2	[illegible]	[illegible]	[illegible]	[illegible]	17.0	17.0	[illegible]	[illegible]	[illegible]	[illegible]	20.5	20.5
3	[illegible]	[illegible]	[illegible]	[illegible]	18.0	18.5	[illegible]	[illegible]	[illegible]	[illegible]	20.5	21.0
4	[illegible]	[illegible]	[illegible]	[illegible]	18.5	18.5	[illegible]	[illegible]	[illegible]	[illegible]	21.0	21.0
5	[illegible]	[illegible]	[illegible]	[illegible]	18.5	18.5	[illegible]	[illegible]	[illegible]	[illegible]	21.0	21.0
6	[illegible]	[illegible]	[illegible]	[illegible]	18.5	19.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	18.5	19.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	20.0	20.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	20.0	20.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	20.0	20.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.

LOCATION.--Lat 42°48'22", Long 73°43'24", Albany County, at hydroelectric station at Crescent Dam and 1.6 miles upstream from gaging station (01357500) at Cohoes.

DRAINAGE AREA.--3,453 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
15...	0820	E3450	3.1	30	0	32	4.0	10	1.2	82	0
24...	1330	E9110	4.0	--	--	33	4.2	10	1.3	90	0
27...	0750	E4060	4.7	20	0	33	4.0	11	1.4	96	0
NOV.											
10...	0740	E2170	4.7	20	0	32	4.1	8.9	1.3	84	0
DEC.											
02...	0735	E5520	4.8	20	0	30	4.8	7.6	1.1	88	0
18...	0820	E3760	4.9	30	0	40	6.1	13	1.2	109	0
JAN.											
06...	0805	E4540	5.2	90	0	37	5.2	9.6	1.0	102	0
20...	0805	E3140	5.4	80	0	38	5.5	12	1.2	110	0
FEB.											
01...	0815	E2020	5.9	70	0	40	5.8	15	1.1	112	0
17...	0745	E11400	5.8	70	0	37	5.6	17	1.3	104	0
MAR.											
01...	0815	E18200	4.8	100	0	34	5.2	14	1.5	97	0
17...	0820	E23700	4.4	90	0	36	4.9	12	1.6	101	0
29...	0750	E6150	4.9	60	0	41	6.1	15	1.4	116	0
APR.											
14...	0800	E37000	3.9	170	0	29	4.1	4.8	1.2	84	0
27...	0755	E13100	3.5	110	0	24	3.7	3.6	.8	68	0
MAY											
13...	0755	E17500	3.2	40	0	25	3.7	4.0	.8	68	0
25...	0735	E3940	2.9	30	0	23	3.6	5.7	.7	63	0
JUNE											
09...	0850	E3480	.3	20	0	34	5.5	7.8	1.2	98	0
22...	1430	E2370	.2	10	0	38	6.7	12	1.9	113	0
JULY											
07...	1500	E1760	1.7	20	0	41	6.9	14	1.7	114	0
21...	0900	E3810	.7	20	30	38	6.5	11	1.7	109	0
AUG.											
03...	1450	E5960	.3	40	0	35	5.3	11	1.1	95	0
18...	0930	E1570	.3	60	0	36	5.3	8.2	1.3	95	0
31...	1955	E4400	1.7	40	0	33	5.3	13	1.3	90	0
SEP.											
14...	0915	E4180	.7	50	0	34	5.4	8.6	1.9	97	0
29...	1315	E2510	3.3	30	0	33	5.2	6.5	1.2	93	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.											
15...	67	25	13	.2	.52	--	.02	.16	6.0	.48	163
24...	74	28	13	.1	--	--	.15	.65	3.2	--	155
27...	79	32	16	.2	.90	--	.42	.29	2.6	.46	156
NOV.											
10...	69	26	13	.1	.80	--	.57	.25	.5	.54	155
DEC.											
02...	72	27	11	.2	.65	--	.16	.66	7.7	.58	165
18...	89	33	20	.1	.34	--	.10	.82	7.6	.69	188
JAN.											
06...	84	30	18	.2	.50	--	.10	.78	7.6	.46	197
20...	90	32	16	.2	.27	--	.08	.91	7.7	.46	161
FEB.											
01...	92	35	21	.1	.54	--	.06	1.0	7.5	.52	174
17...	85	31	24	.1	.77	--	.08	[illegible]	7.8	.44	175
MAR.											
01...	80	[illegible]	[illegible]	.1	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17...	83	[illegible]	[illegible]	.1	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29...	95	[illegible]	[illegible]	.1	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
APR.											
14...	69	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27...	56	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MAY											
13...	56	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	--
25...	52	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	--
JUNE											
09...	80	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	--
22...	93	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	--
JULY											
07...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--
21...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--
AUG.											
03...	78	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--
18...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--
31...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--
SEP.											
14...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--
29...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--

01357000 MOHAWK RIVER AT CRESCENT DAM, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.											
15...	133	17	96	29	240	7.4	--	11	--	12	.04
24...	141	10	100	26	258	7.8	15.0	10	9.6	--	--
27...	154	23	100	21	273	7.3	--	10	--	12	.03
NOV.											
10...	133	25	97	28	244	7.3	--	11	--	8	.04
DEC.											
02...	133	13	94	22	232	7.5	--	18	--	16	.04
18...	176	13	125	36	314	7.5	--	10	--	6	.02
JAN.											
06...	159	26	114	30	284	7.2	--	3	--	8	.04
20...	168	23	118	27	304	7.4	--	6	--	4	.04
FEB.											
01...	187	5	124	32	321	7.7	--	5	--	11	.12
17...	94	15	115	30	321	7.5	--	8	--	6	.04
MAR.											
01...	171	8	110	30	306	7.6	--	10	--	8	.06
17...	166	13	110	27	299	7.6	--	20	--	12	.03
29...	184	31	128	32	319	7.8	--	6	--	7	.05
APR.											
14...	120	17	89	20	214	7.7	--	19	--	11	.03
27...	94	18	75	19	167	7.5	--	7	--	10	.02
MAY											
13...	95	--	77	22	168	7.6	--	--	--	14	.02
25...	97	--	72	21	181	7.7	--	--	--	10	.04
JUNE											
09...	139	--	108	27	249	7.6	--	--	--	6	.04
22...	166	--	123	30	292	7.5	--	--	--	4	.04
JULY											
07...	187	--	130	37	324	7.5	--	--	--	14	.05
21...	163	--	120	32	292	7.7	--	--	--	18	.06
AUG.											
03...	146	--	110	31	262	7.7	--	--	--	18	.05
18...	135	--	110	29	243	7.5	--	--	--	15	.06
31...	150	--	100	30	265	7.4	--	--	--	14	.11
SEP.											
14...	144	--	110	28	255	7.0	--	--	--	16	.07
29...	138	--	100	28	244	7.4	--	--	--	26	.05

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.									
24...	0	0	1	100	4	0	<.5	<.5	40

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.
(International Hydrological Decade River Station)

LOCATION.--Lat 42°43'46", long 73°41'48", Albany-Rensselaer County line, at bridge on State Highway 7, 1.7 miles downstream from Green Island gaging station and Troy lock and dam, and 2.3 miles downstream from 5th branch of the Mohawk River.

DRAINAGE AREA.--8,090 sq mi, approximately (including that above site of former auxiliary gage).

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1971.
Water temperatures: October 1954 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 26.0°C on many days in July; minimum, freezing point during winter period.

Period of record:
Water temperatures: Maximum, 28.5°C July 27-30, 1963; minimum, freezing point on many days during winter periods.

REMARKS.--Water temperature measurements made at Troy lock and dam, lat 42°45'05", long 73°41'10". Stream frozen or no water temperature record Dec. 8 to April 26.

COOPERATION.--Water temperature record furnished by the Corps of Engineers.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
22...	0730	E4540	3.3	50	0	21	3.5	9.0	.9	58	0	48
NOV.												
20...	1300	E9520	3.8	50	40	23	3.2	7.9	.8	61	0	50
DEC.												
23...	0800	E9200	4.6	80	0	29	4.4	11	.9	78	0	64
JAN.												
20...	1115	E8400	5.2	110	0	20	3.6	8.0	.8	51	0	42
FEB.												
26...	0800	E17000	4.7	90	0	32	4.8	12	1.2	85	0	70
MAR.												
29...	0750	E15200	5.3	90	60	31	4.4	11	1.2	86	0	71
APR.												
26...	0900	E33500	3.7	90	0	21	3.0	3.5	.9	64	0	52
MAY												
17...	0630	E34900	3.8	40	0	16	2.6	3.4	.6	45	0	37
JUNE												
22...	0630	E6990	2.0	80	0	26	4.7	8.6	1.2	76	0	62
JULY												
20...	0645	E9660	2.3	110	0	29	4.4	9.4	.8	69	0	57
AUG.												
25...	1530	E5340	2.8	150	0	19	2.8	5.0	.8	40	0	33
SEP.												
23...	1430	E10800	3.3	110	0	27	4.3	8.3	1.1	74	0	61

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.											
22...	26	12	.1	.48	--	.30	.70	1.9	.22	115	107
NOV.											
20...	26	11	.2	.18	--	.02	.13	7.4	.35	110	109
DEC.											
23...	27	16	.2	.51	--	.53	.27	5.3	.54	156	137
JAN.											
20...	22	16	.1	.31	--	.29	.58	7.4	.17	109	106
FEB.											
26...	28	19	.1	.64	--	.29	.66	5.6	.29	165	164
MAR.											
29...	29	17	.1	.72	--	.35	.58	5.7	.33	150	163
APR.											
26...	19	8.8	.1	.88	--	.06	.06	5.3	.06	96	88
MAY											
17...	15	8.2	.0	.36	--	.17	.08	2.4	.24	--	66
JUNE											
22...	22	15	.1	1.5	--	.23	.08	5.8	.50	--	119
JULY											
20...	29	13	.1	.56	1.5	.27	.27	5.1	.51	--	105
AUG.											
25...	19	5.8	.1	.52	1.7	.08	.86	1.7	.24	--	76
SEP.											
23...	20	15	.1	.69	1.5	.31	.23	5.3	.13	--	106

DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
AUG.						
25...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.--Continued
(International Hydrological Decade River Station)

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.											
22...	22	67	19	184	7.3	12.0	28	38	--	--	.04
NOV.											
20...	5	70	20	182	7.1	8.0	15	9	--	--	.04
DEC.											
23...	19	90	26	235	7.3	.0	16	14	--	--	.04
JAN.											
20...	21	65	23	178	7.3	.0	13	14	--	--	.06
FEB.											
26...	16	100	30	258	7.7	1.0	17	24	--	--	.04
MAR.											
29...	53	95	25	255	7.6	--	16	15	--	--	.08
APR.											
26...	18	64	12	159	7.7	5.0	5	11	--	--	.03
MAY											
17...	--	50	14	122	7.6	10.0	--	12	--	--	.02
JUNE											
22...	--	84	22	221	7.5	--	--	17	--	--	.04
JULY											
20...	--	81	24	207	7.4	--	--	16	--	--	.05
AUG.											
25...	--	49	16	131	7.2	19.5	--	13	--	--	.05
SEP.											
23...	--	85	24	209	7.5	18.0	--	13	1100	26000	.05

RADIOCHEMICAL ANALYSES

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
OCT.								
22...	<.4	4.0	<.1	.6	<1.3	<.4	3.2	.5
NOV.								
20...	.5	4.2	<.1	.5	1.5	<.4	3.3	.4
DEC.								
23...	<.5	4.1	<.1	.9	<1.5	<.4	3.2	.8
JAN.								
20...	<.4	3.4	.2	.8	<1.2	.5	2.7	.7
FEB.								
26...	<.6	4.4	.2	1.2	<1.7	.7	3.5	1.1
MAR.								
29...	<.6	4.1	<.1	.4	<1.8	<.4	3.2	<.4
MAY								
17...	.8	4.6	.4	2.0	2.3	1.1	3.7	1.7

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	10.0	4.5	---	---	---	---	6.0	16.0	26.0	24.0	20.5
2	16.5	10.0	4.5	---	---	---	---	6.0	16.0	25.5	24.5	20.5
3	16.5	10.0	4.5	---	---	---	---	6.5	16.5	26.0	24.5	20.5
4	16.5	9.5	4.5	---	---	---	---	6.5	16.5	25.5	24.5	20.5
5	15.5	9.5	4.0	---	---	---	---	6.5	16.5	25.5	24.5	21.5
6	15.0	9.5	4.0	---	---	---	---	6.5	16.5	25.5	24.0	23.0
7	15.0	9.5	1.5	---	---	---	---	6.5	18.0	26.0	24.0	21.5
8	16.5	9.5	---	---	---	---	---	6.5	18.0	26.0	24.0	21.0
9	14.5	9.0	---	---	---	---	---	6.5	18.0	26.0	24.5	21.5
10	16.5	9.0	---	---	---	---	---	6.5	20.5	26.0	24.5	21.5
11	16.5	9.5	---	---	---	---	---	7.0	20.0	25.5	24.5	23.0
12	14.5	9.5	---	---	---	---	---	8.0	20.0	25.5	24.5	23.0
13	17.0	9.5	---	---	---	---	---	7.0	20.5	26.0	24.5	22.0
14	18.5	9.5	---	---	---	---	---	7.0	21.5	26.0	24.5	23.5
15	18.5	9.5	---	---	---	---	---	9.0	22.0	26.0	24.5	24.0
16	18.5	9.0	---	---	---	---	---	10.5	22.0	26.5	26.0	23.5
17	19.5	8.5	---	---	---	---	---	10.0	22.0	26.5	25.5	23.0
18	16.5	7.0	---	---	---	---	---	10.0	22.5	26.0	25.5	23.0
19	16.0	7.0	---	---	---	---	---	13.5	22.0	26.5	26.0	22.5
20	15.0	7.0	---	---	---	---	---	14.5	26.5	26.5	26.5	22.5
21	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	---	---	---	---	---	---	[illegible]	---	[illegible]	[illegible]	---

01359560 HUDSON RIVER AT GLENMONT, N.Y.

LOCATION.--Lat 42°35'43", Long 73°45'43", Albany County, at Niagara Mohawk Glenmont Power Station (intake), 0.2 mile downstream from lower mouth of Normans Kill and 0.9 mile southeast of Glenmont.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
07...	0800	3.5	50	0	20	3.2	8.8	1.0	54	0	44
09...	1235	3.5	--	--	21	3.5	8.6	1.2	63	0	52
21...	0800	3.4	60	0	23	3.9	10	1.1	58	0	48
NOV.											
02...	0755	4.6	70	0	20	3.2	6.9	1.0	54	0	44
18...	0810	3.6	60	0	23	3.4	8.9	.9	60	0	49
DEC.											
10...	0805	4.4	100	0	22	3.7	7.8	.8	58	0	48
29...	0825	4.9	90	0	28	4.4	9.8	.9	73	0	60
JAN.											
12...	0805	5.0	100	30	28	4.1	9.6	.9	70	0	57
26...	0825	5.3	110	20	25	4.0	9.8	.8	72	0	59
FEB.											
09...	0805	5.5	60	0	22	3.9	11	.9	58	0	48
25...	0800	4.9	170	0	29	4.6	13	1.2	74	0	61
MAR.											
09...	0830	5.3	100	0	29	4.5	12	1.3	73	0	60
25...	0800	5.5	190	0	28	5.0	10	1.2	74	0	61
APR.											
06...	0800	4.5	160	0	27	4.6	7.0	1.5	80	0	66
22...	0740	9.0	90	0	20	3.4	4.6	.9	60	0	49
MAY											
03...	0820	4.1	80	0	20	3.6	5.0	.7	58	0	48
19...	0820	4.0	80	0	16	2.8	4.3	.6	45	0	37
JUNE											
03...	0755	3.7	80	0	17	3.4	5.7	.8	52	0	43
15...	0945	3.0	50	0	22	4.2	6.8	1.4	65	0	53
29...	1000	2.9	150	0	24	5.0	9.2	1.2	70	0	57
JULY											
14...	0930	3.4	240	130	24	4.5	9.5	1.2	60	0	49
27...	1030	2.5	130	0	21	4.2	10	1.4	61	0	50
AUG.											
10...	0930	3.3	200	60	20	3.7	6.0	1.4	50	0	41
24...	1000	2.7	190	0	19	3.8	6.8	.9	45	0	37
SEP.											
08...	1230	3.4	200	0	22	4.2	8.3	1.4	57	0	47
21...	1000	3.6	140	0	21	3.6	6.8	1.1	55	0	45

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.											
07...	22	12	.2	.20	--	.61	.31	3.1	.36	113	101
09...	22	11	.1	--	--	.65	.63	2.2	--	121	105
21...	25	13	.1	.20	--	1.0	.82	3.4	.42	113	113
NOV.											
02...	23	13	.1	.36	--	.02	.41	4.1	.45	119	105
18...	23	13	.0	.36	--	.01	.06	.2	.48	117	107
DEC.											
10...	23	12	.0	.33	--	.30	.44	2.3	.51	121	106
29...	28	16	.1	.27	--	.10	.22	3.7	.42	152	133
JAN.											
12...	26	15	.2	.35	--	.06	.78	2.5	.43	120	125
26...	27	17	.1	.49	--	.06	1.0	2.2	.48	129	129
FEB.											
09...	26	16	.1	.30	--	.05	1.0	2.4	.38	116	116
25...	29	25	.2	.36	--	.14	.65	3.2	.50	164	144
MAR.											
09...	25	20	.1	.83	--	.58	.35	4.3	.50	159	140
25...	25	18	.1	.62	--	.03	.37	3.6	.37	152	136
APR.											
06...	26	17	.0	1.5	--	.06	.27	4.3	.35	177	134
22...	16	9.8	.1	.50	--	.26	.15	2.9	.37	99	93
MAY											
03...	16	8.0	.0	.36	--	.25	.16	2.6	.26	95	90
19...	15	8.6	.1	.50	--	.07	.25	3.2	.26	--	72
JUNE											
03...	15	9.3	.2	.47	--	--	.08	3.2	.23	--	89
15...	[illegible]	12	.1	.71	--	.57	.18	4.5	.50	--	108
29...	[illegible]	16	.1	[illegible]	[illegible]	.16	1.1	[illegible]	[illegible]	--	108
JULY											
14...	[illegible]	[illegible]	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]
27...	[illegible]	[illegible]	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]
AUG.											
10...	[illegible]	[illegible]	.1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]
24...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]
SEP.											
08...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]
21...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]

01359560 HUDSON RIVER AT GLENMONT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.										
07...	15	63	19	186	6.9	--	20	--	14	.04
09...	15	67	15	197	7.3	17.0	20	5.6	--	--
21...	24	74	26	205	7.2	--	28	--	23	.06
NOV.										
02...	36	68	24	183	6.8	--	30	--	20	.05
18...	7	72	23	199	6.9	--	21	--	14	.06
DEC.										
10...	25	70	22	185	7.2	--	22	--	6	.04
29...	36	88	28	232	7.1	--	16	--	9	.06
JAN.										
12...	20	87	30	221	6.9	--	22	--	17	.06
26...	6	78	20	220	7.2	--	23	--	17	.07
FEB.										
09...	14	70	23	210	7.3	--	17	--	14	.05
25...	9	92	31	259	7.4	--	22	--	15	.05
MAR.										
09...	14	90	31	251	7.5	--	7	--	9	.05
25...	22	90	30	234	7.3	--	23	--	13	.06
APR.										
06...	33	86	21	224	7.8	--	24	--	8	.04
22...	14	63	15	161	7.6	--	10	--	8	.02
MAY										
03...	20	65	17	160	7.5	--	12	--	11	.03
19...	--	51	15	131	7.2	--	--	--	9	.03
JUNE										
03...	--	56	14	153	7.2	--	--	--	10	.06
15...	--	72	19	186	7.2	--	--	--	10	.05
29...	--	81	23	209	7.1	--	--	--	17	.06
JULY										
14...	--	78	29	217	7.1	--	--	--	30	.06
27...	--	70	20	190	7.2	--	--	--	35	.08
AUG.										
10...	--	65	24	165	7.4	--	--	--	16	.06
24...	--	63	26	172	7.2	--	--	--	14	.08
SEP.										
08...	--	72	25	192	7.2	--	--	--	17	.05
21...	--	67	22	170	7.1	--	--	--	12	.06

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.										
09...	0	0	6	0	160	5	60	<.5	<.5	20

01359803 HUDSON RIVER AT COEYMANS, N.Y.

LOCATION.--Lat 42°28'57", Long 73°47'20", Albany County, at dock at Powell and Minnock Brick Works, 0.4 mile upstream from Coeymans Creek, and 0.4 mile northeast of Coeymans.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
07...	0845	3.2	30	0	20	3.2	8.0	.9	52	0
NOV.										
02...	0840	4.5	60	0	21	3.3	8.3	1.0	56	0
DEC.										
10...	0900	4.5	90	10	25	4.1	8.2	.9	66	0
JAN.										
12...	0850	5.1	80	50	27	4.1	9.7	.9	68	0
FEB.										
09...	0855	5.1	110	0	23	4.0	15	1.0	64	0
MAR.										
09...	--	5.5	50	0	29	4.5	12	1.3	75	0
APR.										
22...	0830	4.3	90	0	19	3.2	4.0	.8	56	0
MAY										
19...	0915	4.0	80	0	16	2.8	4.1	.7	43	0
JUNE										
15...	1015	3.0	110	0	21	4.2	7.0	1.2	67	0
JULY										
14...	1030	3.0	70	40	28	4.7	10	1.5	69	0
AUG.										
10...	1015	3.0	150	0	20	3.9	6.3	1.3	56	0
SEP.										
08...	1300	3.8	110	0	19	3.8	7.1	1.2	49	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANI NITRO GEN (N) (MG/L	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
07...	43	22	12	.1	.3	--	.12	.34	3.8	.35
NOV.										
02...	46	24	12	.0	.3	--	.02	.25	4.1	.38
DEC.										
10...	54	25	12	.1	.4	--	.20	.42	2.4	.60
JAN.										
12...	56	26	13	.1	.3	--	.04	.66	2.5	.35
FEB.										
09...	52	28	18	.1	.2	--	.05	1.1	2.4	.48
MAR.										
09...	62	25	24	.4	.7	--	.03	1.0	4.4	.26
APR.										
22...	46	15	3.7	.1	.4	--	.21	.18	2.9	.27
MAY										
19...	35	16	6.5	.0	.6	--	.04	.35	2.2	.22
JUNE										
15...	55	17	11	.0	.8	--	.02	.11	4.2	.44
JULY										
14...	57	23	15	.0	.9	1.6	.07	.09	4.2	.55
AUG.										
10...	46	21	9.3	.1	.9	1.4	.36	.32	2.4	.49
SEP.										
08...	40	22	9.7	.2	.4	1.6	.01	.06	4.0	.31

01359803 HUDSON RIVER AT COEYMANS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
07...	106	101	18	63	20	178	7.4	19	10	.04
NOV.										
02...	131	107	8	66	20	191	7.0	38	16	.05
DEC.										
10...	128	116	13	80	26	202	7.3	24	12	.04
JAN.										
12...	127	123	9	84	28	218	7.1	7	15	.06
FEB.										
09...	128	130	15	73	21	233	7.1	27	18	.06
MAR.										
09...	150	145	15	90	29	247	7.4	15	8	.05
APR.										
22...	93	81	24	60	15	148	7.6	9	9	.03
MAY										
19...	--	74	--	51	16	133	7.1	--	9	.03
JUNE										
15...	--	103	--	69	15	189	6.9	--	14	.05
JULY										
14...	--	125	--	89	33	223	7.4	--	16	.06
AUG.										
10...	--	97	--	66	20	174	7.4	--	14	.05
SEP.										
08...	--	96	--	63	23	163	7.2	--	23	.06

01361450 HUDSON RIVER AT CATSKILL, N.Y.

LOCATION.--Lat 42°12'36", Long 73°51'12", Greene County, at right bank at Greene County Highway Department dock, 600 ft upstream from Catskill Creek, and 0.9 mile downstream from Rip Van Winkle Bridge.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
07...	0945	2.3	70	0	20	3.5	10	.9	52	0
NOV.										
02...	0940	4.0	40	0	23	3.6	8.6	1.1	60	0
DEC.										
10...	0955	4.6	120	0	22	3.7	6.6	.8	56	0
JAN.										
12...	0950	5.0	100	50	25	4.2	10	1.0	68	0
FEB.										
09...	0955	5.3	140	50	23	3.9	11	1.0	58	0
MAR.										
09...	1025	5.1	70	0	24	3.6	9.6	1.2	60	0
APR.										
06...	0900	4.2	310	0	22	3.6	6.3	1.2	59	0
22...	0930	4.2	80	0	20	3.3	4.0	.8	56	0
MAY										
19...	1015	3.9	60	0	14	2.5	3.6	.6	38	0
JUNE										
15...	1115	^.3	70	0	20	3.9	6.1	1.0	58	0
JULY										
14...	1130	.2	70	0	26	4.8	9.5	1.1	70	0
AUG.										
10...	1115	.4	50	0	25	4.7	10	1.3	70	0
SEP.										
08...	1415	2.1	60	0	22	4.4	11	1.6	60	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
07...	43	27	15	.2	.55	--	.06	.35	4.5	.38
NOV.										
02...	49	24	13	.0	.13	--	.00	.15	3.3	.52
DEC.										
10...	46	22	11	.2	.24	--	.36	.33	3.0	.36
JAN.										
12...	56	26	17	.1	.19	--	.00	.63	1.2	.30
FEB.										
09...	48	27	16	.1	.19	--	.06	.97	2.4	.38
MAR.										
09...	49	23	16	.1	1.0	--	.30	.18	3.9	.26
APR.										
06...	48	23	11	.1	.42	--	.02	.24	3.1	.24
22...	46	15	5.6	.1	.36	--	.16	.08	2.8	.25
MAY										
19...	31	13	5.4	.0	.33	--	.04	.18	2.0	.17
JUNE										
15...	48	16	11	.0	1.3	--	.01	.09	2.8	.18
JULY										
14...	57	23	13	.1	.66	1.5	.20	.22	5.5	.66
AUG.										
10...	57	25	15	.1	.56	1.6	.05	.65	3.7	.60
SEP.										
08...	69	20	22	.0	.50	1.3	.02	.17	5.2	.36

01361450 HUDSON RIVER AT CATSKILL, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
07...	121	113	12	70	27	203	7.6	34	15	.04
NOV.										
02...	127	112	20	72	23	201	7.2	20	10	.04
DEC.										
10...	110	103	24	70	24	174	7.2	21	13	.06
JAN.										
12...	128	124	34	80	24	221	7.4	15	15	.04
FEB.										
09...	121	120	13	73	26	215	7.2	19	17	.06
MAR.										
09...	134	118	19	74	26	213	7.3	3	13	.04
APR.										
06...	112	104	16	69	21	185	7.5	19	9	.04
22...	92	84	24	63	18	150	7.6	7	8	.02
MAY										
19...	--	64	--	45	14	115	7.2	--	10	.03
JUNE										
15...	--	93	--	65	18	166	7.3	--	11	.04
JULY										
14...	--	117	--	85	27	214	7.6	--	19	.06
AUG.										
10...	--	120	--	82	24	216	7.8	--	12	.05
SEP.										
08...	--	117	--	73	24	221	7.3	--	12	.04

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.
(Hydrologic bench-mark station)

LOCATION.--Lat 42°06'59", long 74°23'20", Ulster County, temperature recorder at gaging station at Shandaken, 0.5 mile downstream from Bushnellsville Creek, and 1.3 miles upstream from Shandaken Tunnel Outlet.

DRAINAGE AREA.--59.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1963 to September 1971.
Water temperatures: July 1963 to July 1968, January 1970 to September 1971.

EXTREMES.--1970-71:
Water Temperatures: Maximum, 27.0°C July 8; minimum, freezing point on many days during December and January.

Period of Record:
Water Temperatures: Maximum, 28.5°C Aug. 16, 1965; minimum, freezing point on many days during winter period.

REMARKS.--No water temperature record November 23 to December 4.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 14...	1515	24	2.0	--	6.1	1.5	2.5	.7	20	0	16
NOV. 24...	1410	186	2.4	--	5.0	1.0	1.1	.2	8	0	7
DEC. 29...	1230	62	2.5	--	6.0	1.0	1.6	.2	12	0	10
JAN. 19...	1330	65	2.7	--	7.3	1.1	1.6	.3	12	0	10
FEB. 19...	1245	156	2.6	--	5.5	1.0	1.9	.3	10	0	8
MAR. 23...	1040	191	2.4	--	5.0	1.0	1.6	.3	12	0	10
APR. 21...	1040	655	2.2	--	4.0	.9	.8	.2	7	0	6
MAY 25...	1035	111	2.4	0	5.0	1.3	1.2	.3	12	0	10
JULY 01...	1030	20	2.7	10	6.0	1.4	2.3	.5	19	0	16
28...	1300	9.7	2.4	--	7.6	1.4	2.9	.5	20	0	16
AUG. 26...	1215	12	2.0	--	7.0	1.4	2.8	.5	24	0	20

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT. 14...	9.0	3.0	.0	--	.01	.08	.1	--	34	35	2
NOV. 24...	9.0	1.5	.1	.00	.01	.06	.1	.12	25	24	0
DEC. 29...	8.0	3.0	.0	.00	.01	.00	1.0	.02	30	29	13
JAN. 19...	8.0	2.1	.0	.00	.01	.05	1.5	.04	33	30	6
FEB. 19...	9.7	3.5	.0	.08	.01	.12	1.9	.05	42	31	0
MAR. 23...	7.6	3.0	.0	--	.01	.10	1.5	.04	26	28	5
APR. 21...	7.6	1.2	.0	--	.01	.02	1.5	.07	32	22	14
MAY 25...	8.0	1.8	.0	--	.01	.01	.8	.04	26	26	5
JULY 01...	7.7	3.5	.0	--	.00	.14	.5	.06	--	34	--
28...	7.0	4.7	.0	--	.00	.09	.0	.14	--	--	--
AUG. 26...	7.3	4.2	.0	--	--	--	.0	.06	--	37	--

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT.											
14...	21	5	61	7.0	18.0	2	10.0	1.1	--	--	--
NOV.											
24...	16	9	44	6.7	3.0	0	11.8	2.0	--	--	.01
DEC.											
29...	19	9	49	7.0	.0	0	14.5	.0	7	32	.01
JAN.											
19...	22	13	52	7.0	.0	0	14.2	.4	--	--	.00
FEB.											
19...	17	10	76	7.0	3.0	2	12.0	.0	4	34	--
MAR.											
23...	17	7	48	7.3	2.0	5	12.8	.4	--	29	--
APR.											
21...	13	8	41	6.7	6.0	3	--	.5	9	37	--
MAY											
25...	17	8	47	7.1	10.5	1	12.8	4.0	12	117	--
JULY											
01...	21	5	70	7.3	20.5	--	12.4	--	23	460	--
28...	--	--	66	7.6	22.5	--	4.6	3.0	16	56	.01
AUG.											
26...	23	4	80	7.5	19.5	--	7.8	.4	8	61	--

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT.											
14...	0	6	0	4	--	20	5	10	<.5	<.5	0
NOV.											
24...	--	--	--	--	--	10	--	0	--	--	--
DEC.											
29...	--	--	--	--	--	10	--	0	--	--	--
JAN.											
19...	--	--	--	--	--	10	--	0	--	--	--
FEB.											
19...	--	--	--	--	--	70	--	10	--	--	--
MAR.											
23...	0	--	--	--	0	20	5	0	<.5	--	--
APR.											
21...	--	--	--	--	--	--	--	0	--	--	--

RADIOCHEMICAL ANALYSIS

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS- PENDED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDED GROSS BETA AS SR90 /Y90 (PC/L)
OCT.								
14...	.2	2.1	<.1	<.4	.5	<.4	1.7	<.4

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	CHLOR- DANE (UG/L)	DDD (UG/L)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)
OCT.							
14...	.00	.00	.00	.00	.00	.00	.00

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	DI- AZINON (UG/L)	MALA- THION (UG/L)	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)
OCT.						
14...	.00	.00	.00	.00	.00	.00

CONTINUED NEXT PAGE

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	11.0	10.0	8.0	---	---	0.0	0.0	2.0	1.0	4.5	2.0
2	12.5	10.5	10.0	7.5	---	---	0.0	0.0	1.5	1.5	3.0	1.5
3	15.0	12.5	10.0	7.0	---	---	0.0	0.0	2.0	1.0	2.5	0.5
4	13.0	10.5	9.5	9.0	---	---	0.0	0.0	1.5	1.0	0.5	0.5
5	12.5	9.0	9.0	6.5	2.5	1.0	0.5	0.0	1.0	1.0	2.0	0.5
6	13.5	9.0	7.5	6.0	2.5	1.0	0.5	0.0	1.0	1.0	3.5	1.5
7	16.0	11.5	9.0	6.0	1.0	0.5	0.0	0.0	1.0	0.5	2.5	1.0
8	16.0	12.0	8.0	6.5	0.5	0.5	0.0	0.0	0.5	0.5	2.0	0.5
9	16.0	12.5	7.0	6.0	2.5	0.5	0.5	0.0	0.5	0.5	1.5	0.5
10	16.5	13.0	8.0	6.5	3.0	2.0	0.5	0.0	0.5	0.5	3.5	0.5
11	16.5	14.0	9.5	8.0	2.0	0.5	1.0	0.0	0.5	0.5	2.5	1.5
12	16.5	14.0	9.5	9.0	1.0	0.5	1.0	0.0	0.5	0.5	5.5	1.5
13	17.0	14.0	9.0	9.0	2.0	0.5	0.0	0.0	1.0	0.5	2.5	2.0
14	17.0	15.0	9.0	8.5	2.0	1.5	0.0	0.0	1.0	1.0	7.0	2.5
15	16.5	14.0	8.5	8.0	2.0	1.0	0.0	0.0	1.0	1.0	6.0	2.5
16	14.0	10.0	8.0	6.0	1.0	0.5	0.5	0.0	1.0	1.0	4.0	2.5
17	10.0	8.0	6.5	6.0	0.5	0.5	0.0	0.0	1.0	1.0	3.5	1.5
18	11.5	8.0	6.0	6.0	0.5	0.0	0.0	0.0	1.5	1.0	4.0	1.5
19	11.0	8.5	7.5	6.0	2.0	0.0	0.5	0.0	3.5	1.5	1.5	0.0
20	10.0	7.0	6.5	6.5	2.0	1.0	0.5	0.0	2.5	2.5	3.0	0.0
21	10.0	9.0	6.5	5.5	1.0	0.5	0.5	0.0	3.0	2.5	3.5	1.5
22	11.0	10.0	6.0	---	0.5	0.0	0.0	0.0	3.0	2.5	5.0	0.5
23	11.0	11.0	---	---	0.0	0.0	0.0	0.0	2.5	2.5	4.0	1.0
24	11.5	10.0	---	---	0.0	0.0	0.0	0.0	2.5	2.5	2.0	0.0
25	11.0	9.0	---	---	0.0	0.0	0.0	0.0	3.5	2.5	4.5	0.0
26	10.5	10.0	---	---	0.0	0.0	0.0	0.0	4.5	1.0	4.0	0.0
27	10.0	8.0	---	---	0.0	0.0	0.5	0.0	4.5	3.0	5.5	0.0
28	9.5	7.0	---	---	0.0	0.0	1.0	0.5	4.5	2.5	4.5	0.0
29	9.0	6.5	---	---	0.0	0.0	0.5	0.5	---	---	4.0	2.0
30	9.0	6.5	---	---	0.0	0.0	0.5	0.0	---	---	5.0	2.0
31	8.5	7.0	---	---	0.0	0.0	1.0	0.0	---	---	6.5	2.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	1.5	10.0	5.5	18.5	9.5	25.0	19.5	20.5	17.5	18.5	12.0
2	5.0	4.0	9.0	6.5	14.0	9.5	22.5	17.5	20.5	18.5	17.0	12.0
3	7.5	3.0	7.5	7.0	17.5	11.5	24.5	14.5	19.0	16.5	19.5	14.0
4	6.5	2.5	7.5	6.5	21.0	12.0	25.0	14.5	16.5	15.5	19.5	15.0
5	4.0	2.5	12.0	5.5	18.5	12.0	26.0	16.0	21.5	14.0	20.5	15.5
6	4.5	2.5	8.5	7.5	16.5	10.0	21.5	16.0	22.0	13.5	19.5	16.0
7	7.0	2.0	13.0	6.5	20.5	12.5	25.5	16.0	22.0	14.5	21.5	16.5
8	7.0	2.0	9.5	8.0	22.0	14.0	27.0	17.5	24.0	15.5	20.5	16.5
9	8.5	2.5	8.5	8.0	20.0	14.5	26.0	19.0	25.0	17.0	20.5	15.5
10	5.0	3.5	14.0	7.5	20.5	11.5	25.0	17.0	24.5	17.5	20.0	15.0
11	8.0	3.0	14.0	8.0	19.5	10.5	19.5	17.0	24.0	19.0	19.0	16.0
12	9.0	3.0	11.0	8.5	21.0	12.5	25.0	14.5	23.0	16.5	19.5	16.5
13	8.5	4.5	10.5	8.5	18.5	13.5	24.0	14.5	24.0	14.5	18.0	16.5
14	5.0	3.0	12.0	7.5	17.0	13.5	22.5	17.5	24.5	16.0	16.5	15.0
15	6.5	3.0	12.0	7.0	15.0	13.0	25.0	16.0	19.5	16.5	16.0	14.5
16	4.0	3.5	9.5	8.5	20.0	11.5	23.5	16.5	23.5	15.0	16.0	14.0
17	8.5	3.5	14.0	8.0	22.5	12.0	24.5	18.0	24.0	14.5	15.5	14.0
18	9.0	4.0	16.0	8.0	22.0	13.5	25.0	15.5	25.0	15.5	15.5	14.0
19	10.5	5.0	16.5	9.5	23.0	14.0	19.0	15.5	22.0	16.0	14.0	13.0
20	10.0	5.0	17.5	10.5	23.0	15.0	20.0	16.0	21.5	17.5	14.0	13.5
21	9.0	6.0	13.0	10.5	19.5	16.5	25.0	14.0	23.0	17.0	14.0	12.5
22	6.0	5.5	13.0	9.5	24.0	15.5	23.5	16.0	25.0	17.0	15.5	11.0
23	9.0	3.0	15.5	8.5	25.0	15.0	25.0	16.0	21.5	16.5	13.0	12.0
24	9.0	4.5	16.0	8.5	24.5	16.0	25.0	18.0	21.5	12.5	14.5	11.0
25	6.0	4.5	15.0	11.0	23.5	16.0	23.0	19.0	20.0	12.5	13.0	9.5
26	7.0	5.5	13.0	11.0	25.0	17.5	23.5	19.0	23.0	16.0	11.5	10.5
27	9.5	6.0	12.5	10.0	25.0	15.0	25.0	19.0	19.0	16.0	11.5	11.5
28	6.0	5.0	14.0	9.5	20.0	17.0	25.0	15.5	16.5	16.0	12.0	11.5
29	6.0	5.0	17.5	9.0	23.5	16.5	21.0	18.0	18.5	15.0	16.5	12.0
30	6.5	6.0	12.0	10.0	26.0	18.0	21.0	18.0	20.0	14.0	16.0	13.0
31	---	---	18.5	11.0	---	---	22.0	18.5	19.0	14.5	---	---

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.--Continued

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.				
14...	1630	24	8	.52
NOV.				
24...	1410	186	2	1.0
DEC.				
29...	1530	55	2	.30
JAN.				
19...	1200	65	1	.18
FEB.				
19...	1315	156	5	2.1
APR.				
21...	1345	655	5	8.8
JULY				
01...	1100	20	3	.16
AUG.				
26...	1240	12	1	.03

01372003 WALLKILL RIVER NEAR ROSENDALE, N.Y.

LOCATION.--Lat 41°48'53", Long 74°03'33", Ulster County, at bridge on State Highway 32 and 213, 0.2 mile upstream from Interstate Highway 87, 1.0 mile south of Tillson, and 1.7 miles southeast of Rosendale.

PERIOD OF RECORD.--Chemical analyses: April 1969 to May 1970, May to September 1971

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1971

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
MAY											
05...	1000	.5	120	0	32	8.4	8.5	1.4	90	0	74
JUNE											
17...	1400	4.8	20	0	32	7.5	7.7	1.7	96	0	79
AUG.											
18...	0900	2.2	30	0	39	9.2	13	2.0	114	0	94

DATE	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180° C) (MG/L)
MAY										
05...	30	16	.0	.55	--	.24	.19	2.3	.32	165
JUNE										
17...	25	14	.0	1.2	--	.01	.05	3.6	.55	--
AUG.										
18...	38	22	.1	.61	1.0	.11	.50	.0	.25	--

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
MAY										
05...	145	46	115	41	267	7.7	--	16	29	.04
JUNE										
17...	145	--	111	32	250	7.7	--	--	30	.04
AUG.										
18...	183	--	140	42	323	7.9	30.0	--	18	.06

01372005 RONDOUT CREEK AT EDDYVILLE, N.Y.

LOCATION.--Lat 41°53'39", Long 74°01'13", Ulster County, just upstream of dam about 200 ft upstream from bridge on State Highway 213 at Eddyville and 1.2 miles upstream from Twaalfskill Brook.

PERIOD OF RECORD.--Chemical analyses: April 1969 to May 1970, May to September 1971

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, MAY TO SEPTEMBER 1971

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
MAY										
05...	1000	.8	70	0	27	7.0	7.6	1.3	77	0
JUNE										
23...	1200	4.1	20	0	31	7.4	8.1	1.6	93	0
AUG.										
18...	1300	2.3	30	0	34	7.2	12	1.7	98	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)
MAY									
05...	63	26	15	.0	.59	--	.09	.26	2.0
JUNE									
23...	76	25	14	.0	.52	--	.02	.05	2.9
AUG.									
18...	80	29	20	.1	.43	.71	.06	.31	2.1

DATE	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
MAY									
05...	.19	126	96	33	232	7.7	15	9	.04
JUNE									
23...	.39	141	108	32	251	7.6	--	12	.04
AUG.									
18...	.61	156	120	34	269	8.0	--	11	.05

01372043 HUDSON RIVER NEAR POUGHKEEPSIE, N.Y.

LOCATION.--Lat 41°44'05", long 73°56'15", Dutchess County, at city pumping station on east bank at Poughkeepsie, 0.3 mile west of North Road and 1.4 miles north of Mid-Hudson Bridge.

DRAINAGE AREA.--11,700 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.
Water temperatures: June 1959 to September 1966.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
26...	1515	2.1	40	0	23	3.6	11	1.3	58	0
DEC.										
14...	1030	4.6	50	0	20	3.8	7.2	1.0	57	0
JAN.										
07...	--	4.6	40	0	25	3.9	8.6	.9	62	0
FEB.										
01...	--	5.2	110	0	26	4.6	9.5	1.0	66	0
MAR.										
01...	0630	5.2	200	0	25	4.2	12	1.3	60	0
31...	1200	4.6	160	0	26	4.6	8.1	1.5	67	0
JUNE										
29...	1100	.2	70	0	20	4.0	5.2	1.0	50	0
AUG.										
09...	1020	.2	20	0	27	4.9	11	1.4	70	0
30...	1000	.4	40	0	25	5.1	10	1.4	71	0
SEP.										
27...	1445	3.1	60	0	22	4.1	7.5	1.6	58	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
26...	48	29	15	.2	.49	--	.02	.19	4.8	.76
DEC.										
14...	47	22	13	.2	.36	--	.15	.32	2.7	.20
JAN.										
07...	51	26	13	.2	.13	--	.18	.38	3.5	.40
FEB.										
01...	54	32	16	.1	.35	--	.12	.56	2.4	.38
MAR.										
01...	49	31	20	.1	.75	--	.10	.45	3.8	.36
31...	55	26	17	.1	1.0	--	.03	.21	5.4	1.0
JUNE										
29...	41	18	8.8	.1	.55	1.3	.60	.22	2.0	.55
AUG.										
09...	57	24	15	.1	.79	1.4	.13	.08	2.4	1.1
30...	58	25	15	.1	.86	2.0	.03	.76	2.6	.40
SEP.										
27...	48	23	11	.1	.69	1.8	.03	.69	2.6	.43

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
26...	116	119	31	72	24	221	7.4	21	76	.05
DEC.										
14...	144	103	34	66	19	182	7.5	17	35	.06
JAN.										
07...	124	117	36	78	28	205	7.5	17	18	.04
FEB.										
01...	129	131	24	86	30	228	7.5	20	18	.08
MAR.										
01...	128	134	3	80	31	234	7.1	15	10	.05
31...	161	129	58	83	29	216	7.3	15	32	.04
JUNE										
29...	--	86	--	66	25	158	7.2	--	15	.03
AUG.										
09...	--	123	--	88	30	218	7.7	--	24	.04
30...	--	122	--	83	25	213	7.6	--	10	.06
SEP.										
27...	--	105	--	72	24	184	7.4	--	16	.04

01372058 HUDSON RIVER BELOW POUGHKEEPSIE, N.Y.

LOCATION.--Lat 41°39'03", long 73°56'42", Dutchess County, at intake of IBM water treatment plant on left bank, 2.3 miles south of Poughkeepsie and 3.5 miles downstream of Mid-Hudson Bridge.

DRAINAGE AREA.--11,740 sq mi approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)
OCT.											
06...	1030	16.0	6.9	--	--	230	6.8	--	--	--	--
14...	1030	--	--	--	--	230	7.9	60	0	49	--
NOV.											
09...	1100	13.0	7.9	22	2900	192	7.3	--	--	--	--
DEC.											
10...	1100	4.0	11.1	--	--	280	6.9	--	--	--	--
JAN.											
06...	1100	.0	12.5	--	2100	265	6.1	--	--	--	--
FEB.											
01...	1045	--	10.8	--	--	320	6.2	--	--	--	--
MAR.											
08...	1330	.0	10.8	30	2000	320	7.2	--	--	--	--
APR.											
08...	1200	8.5	8.6	--	5500	--	8.7	--	--	--	--
MAY											
03...	1105	7.0	1.9	12	1000	147	6.8	--	--	--	--
JUNE											
08...	1015	19.0	10.2	110	10000	175	7.1	--	--	--	--
JULY											
09...	1000	24.0	9.8	--	--	168	7.6	57	0	47	--
AUG.											
03...	1130	25.0	--	210	1500	--	--	--	--	--	.45
SEP.											
07...	1245	24.0	4.4	--	--	223	7.2	66	0	54	.72

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLORO-PHYLL A (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.											
06...	--	.88	--	--	.6	.16	--	--	15	4.0	.07
14...	--	--	--	--	1.1	--	--	--	--	--	--
NOV.											
09...	--	.52	--	--	.7	.13	--	4	14	3.7	.60
DEC.											
10...	--	.74	--	--	.6	.22	--	6	14	--	.06
JAN.											
06...	--	.92	--	--	.5	.24	--	20	18	--	.04
FEB.											
01...	--	.84	--	--	.1	.14	--	0	14	.0	.10
MAR.											
08...	--	1.2	--	--	1.0	.11	--	10	22	.0	.05
APR.											
08...	--	.82	--	--	.8	.090	--	7	15	.0	.05
MAY											
03...	--	.58	--	--	.5	.050	--	8	10	1.0	.04
JUNE											
08...	--	.69	--	--	.5	.080	--	2	13	2.0	.07
JULY											
09...	--	.59	.020	.01	.5	.11	--	30	18	3.9	.03
AUG.											
03...	.85	.55	.000	.10	.3	.12	--	1	11	--	.04
SEP.											
07...	1.2	.75	.040	.03	.5	.13	.090	10	12	4.6	.05

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.											
14...	0	1	0	5	--	230	4	0	--	<.5	0
SEP.											
07...	11	--	--	--	0	290	4	20	<.5	--	30

CONTINUED NEXT PAGE

01372058 HUDSON RIVER BELOW POUGHKEEPSIE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)
OCT. 14...	1.5	23	3.7	13	1.5	28	19	.1	138	125	16
SEP. 07...	.7	28	5.0	10	1.6	27	17	.2	140	125	12

DATE	FIXED FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)
OCT. 14...	--	--	72	23	--	20	--	--	--	--
SEP. 07...	13	20	90	36	1	20	1.7	1.0	0	.00

PESTICIDE ANALYSES

DATE	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	METHOXYCHLOR (UG/L)	TOXAPHENE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)
OCT. 06...	--	<.01	--	<.01	--	--	--	--	--	--	--
JUNE 08...	--	.00	.00	.00	.00	.00	--	--	--	.01	.00
JULY 09...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00

DATE	SILVEX (UG/L)	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 06...	--	--	--	--	--	--	--	--	.25	--
JUNE 08...	.00	.00	.00	.00	.00	--	.00	--	.40	--
JULY 09...	--	.00	.00	--	.00	.00	.00	.00	2.1	5.0

RADIOCHEMICAL ANALYSIS

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 03...	.6	4.0	.1	1.5	1.8	.4	3.2	1.3

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.

LOCATION.--Lat 41°39'05", long 73°52'20", Dutchess County, at gaging station 700 ft downstream from Red Oak Mill dam and 4.5 miles northeast of Wappingers Falls.

DRAINAGE AREA.--181 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1964, August 1965 to September 1971.
Water temperatures: October 1963 to September 1964.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
29...	1300	108	6.2	10	0	40	7.8	8.5	1.3	115	0	94
NOV.												
23...	1200	320	7.0	30	0	32	6.8	6.8	.9	90	0	74
DEC.												
22...	1130	174	4.1	30	0	36	7.6	7.8	.8	106	0	87
JAN.												
20...	1210	121	5.8	30	0	32	8.4	8.5	.9	92	0	75
FEB.												
16...	1230	76	6.4	30	0	29	6.0	6.8	1.1	68	0	56
MAR.												
02...	1310	1500	5.9	--	--	24	5.0	6.1	1.1	61	0	50
22...	1030	925	4.6	30	0	25	5.9	6.7	.9	75	0	62
APR.												
19...	1320	298	2.2	20	0	33	6.7	7.1	.8	99	0	81
MAY												
17...	1220	648	4.9	10	0	31	7.2	7.0	.8	90	0	74
JUNE												
23...	1215	57	4.7	10	20	42	12	12	1.4	146	0	120
JULY												
20...	1220	32	4.0	20	0	40	12	12	1.4	136	0	112
AUG.												
28...	1200	E1440	5.1	--	--	26	5.3	8.1	2.4	74	0	61
SEP.												
02...	1015	277	7.2	20	0	34	7.1	7.5	1.1	97	0	80
20...	1210	925	8.1	60	0	31	6.6	6.7	1.1	93	0	76

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT.												
29...	40	16	.0	.00	--	.01	.12	.8	.10	197	177	23
NOV.												
23...	41	14	.0	.31	--	.08	.15	3.1	.09	160	156	13
DEC.												
22...	29	16	.0	.32	--	.08	.08	2.7	.06	165	157	13
JAN.												
20...	35	19	.0	.31	--	.04	.08	5.1	.06	172	160	9
FEB.												
16...	28	16	.0	.32	--	.06	.28	4.2	.31	130	132	23
MAR.												
02...	25	13	.1	--	--	.14	.10	6.8	--	134	117	4
22...	24	12	.0	.41	--	.01	.05	5.5	.06	151	122	25
APR.												
19...	28	15	.0	.96	--	.04	.05	3.5	.04	190	146	51
MAY												
17...	23	13	.1	.72	--	.08	.06	3.0	.10	--	135	--
JUNE												
23...	28	15	.0	.59	--	.02	.08	2.9	.16	--	191	--
JULY												
20...	30	24	.0	.33	.93	.07	.17	1.9	.15	--	193	--
AUG.												
28...	23	16	.1	--	--	--	--	4.8	--	--	--	--
SEP.												
02...	31	14	.0	.64	1.4	.01	.09	3.4	.15	--	154	--
20...	25	10	.0	.42	1.0	.01	.05	2.6	.15	--	138	--

CONTINUED NEXT PAGE

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT.											
29...	132	38	320	7.7	9.0	7	11.8	1	--	--	.01
NOV.											
23...	108	34	267	7.7	7.0	10	11.8	16	--	--	.04
DEC.											
22...	121	34	296	7.7	.0	7	--	4	--	--	.02
JAN.											
20...	115	39	326	7.8	.0	5	12.2	1	66	9500	.02
FEB.											
16...	97	41	233	7.6	1.0	7	13.6	8	75	1860	.02
MAR.											
02...	80	30	202	7.5	2.0	10	--	--	--	--	--
22...	86	25	230	7.7	3.0	3	--	4	--	70	.03
APR.											
19...	110	29	265	8.1	11.5	16	5.4	7	2	2	.03
MAY											
17...	107	33	238	7.7	13.0	--	--	6	--	--	.03
JUNE											
23...	154	35	355	7.9	25.5	--	9.6	9	1	78	.03
JULY											
20...	150	38	347	8.0	21.0	--	6.8	22	73	110	.03
AUG.											
20...	87	26	219	7.2	17.5	--	--	--	--	--	--
SEP.											
02...	110	35	266	7.6	16.0	--	9.0	14	--	--	.03
20...	110	28	224	7.7	18.0	--	6.9	11	200	2100	.03

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAR.						
22...	0	0	50	3	0	<.5

01372550 HUDSON RIVER NEAR CHELSEA, N.Y.

LOCATION.--Lat 41°36'20", Long 73°57'45", Dutchess County, approximately 0.2 mile southeast of Danskammer Point on line between Danskammer Point and Chelsea Pumping Station, 1.3 miles north of Chelsea and about 0.8 mile downstream from Wappinger Creek.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
14...	1020	1.0	60	0	25	4.2	14	1.3	64	0
28...	1030	2.0	90	0	25	3.8	12	1.3	62	0
NOV.										
10...	1005	2.2	50	0	25	4.0	13	1.4	60	0
25...	0930	4.2	110	0	25	4.2	8.6	1.4	60	0
DEC.										
09...	1000	4.4	110	0	25	4.2	8.6	1.2	60	0
JAN.										
06...	--	4.7	90	0	24	4.0	7.9	.9	59	0
20...	0930	4.8	110	0	26	4.2	9.7	1.1	66	0
FEB.										
03...	0945	4.9	130	0	28	4.7	10	1.0	68	0
17...	1035	5.3	100	30	28	4.9	11	1.1	72	0
MAR.										
17...	1000	5.0	90	0	25	4.1	8.7	1.4	66	0
31...	1530	4.6	280	0	27	4.7	8.9	1.4	69	0
APR.										
14...	1400	4.2	150	0	25	4.3	6.3	1.2	68	0
28...	1000	4.1	130	0	21	3.8	4.6	.9	60	0
MAY										
12...	0940	4.0	90	0	16	3.1	4.1	.8	45	0
26...	0900	3.8	40	0	16	3.0	4.0	.7	44	0
JUNE										
16...	0900	2.4	10	40	17	3.5	4.9	1.0	48	0
30...	0900	.4	90	0	18	3.9	5.6	1.0	52	0
JULY										
14...	0900	.2	30	0	21	4.3	8.5	1.0	56	0
28...	0900	.2	10	10	22	4.2	7.9	1.0	60	0
AUG.										
18...	0900	.2	20	20	25	5.0	9.2	1.0	72	0
SEP.										
01...	0900	.6	20	0	25	4.8	9.1	1.2	69	0
15...	0920	1.2	60	0	22	4.6	8.1	1.4	60	0
29...	0900	2.4	50	0	24	4.4	7.9	1.5	63	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
14...	52	28	21	.1	.30	--	.02	.18	3.9	.42
28...	51	27	17	.5	.00	--	.01	.18	4.8	.31
NOV.										
10...	49	29	19	.0	.38	--	.01	.13	4.4	.36
25...	49	34	15	.1	.37	--	.01	.34	4.2	.42
DEC.										
09...	49	27	12	.1	.69	--	.02	.14	4.7	1.6
JAN.										
06...	48	24	13	.1	.13	--	.02	.23	4.0	.42
20...	54	27	16	.1	.36	--	.48	.17	3.1	.28
FEB.										
03...	56	28	19	.0	.24	--	.02	.16	3.8	.34
17...	59	29	17	.0	.34	--	.04	.76	2.7	.37
MAR.										
17...	54	25	16	.1	.45	--	.21	.73	4.6	.44
31...	57	27	15	.0	.51	--	.16	.16	2.3	.29
APR.										
14...	56	24	21	.0	.51	--	.11	.21	3.6	.24
28...	49	17	7.0	.0	.62	--	.03	.12	3.2	.29
MAY										
12...	37	15	6.5	.2	.43	--	.06	.35	2.2	.41
26...	36	15	6.6	.0	.42	--	.01	.20	1.3	.29
JUNE										
16...	39	16	8.6	.0	.37	--	.01	.03	3.0	.21
30...	43	17	8.7	.1	.34	1.0	.00	.01	2.8	.21
JULY										
14...	46	18	12	.0	.30	.86	.07	.00	2.3	.00
28...	49	13	14	.1	.55	1.0	.07	.01	1.9	.34
AUG.										
18...	59	23	15	.2	.38	1.1	.03	.15	2.9	.34
SEP.										
01...	57	24	16	.1	.67	1.4	.20	.09	2.7	.31
15...	49	24	12	.1	.50	1.4	.02	.09	3.8	.37
29...	52	24	12	.1	.45	1.1	.01	.07	2.7	.31

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01372550 HUDSON RIVER NEAR CHELSEA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
14...	140	131	21	80	27	240	7.5	23	14	.02
28...	149	107	23	78	27	228	7.3	20	18	.05
NOV.										
10...	136	129	8	79	30	232	7.3	14	13	.04
25...	134	128	11	80	31	217	7.5	22	21	.06
DEC.										
09...	139	114	22	80	31	205	7.5	24	14	.06
JAN.										
06...	122	112	22	76	28	197	7.4	7	10	.04
20...	123	126	7	82	28	226	7.3	10	11	.04
FEB.										
03...	133	134	12	89	33	241	7.6	17	12	.04
17...	131	136	19	90	31	237	7.2	14	12	.05
MAR.										
17...	136	124	26	79	25	221	7.4	22	7	.05
31...	184	126	79	86	30	223	7.6	17	13	.05
APR.										
14...	153	114	52	80	24	204	7.6	18	4	.04
28...	103	92	25	68	19	164	7.4	16	14	.02
MAY										
12...	--	75	--	52	16	137	7.2	--	12	.02
26...	--	73	--	52	16	133	7.5	--	12	.03
JUNE										
16...	--	80	--	56	17	146	7.3	--	10	.02
30...	--	84	--	61	18	156	7.4	--	8	.03
JULY										
14...	--	95	--	70	24	182	7.6	--	14	.04
28...	--	95	--	72	23	189	7.6	--	10	.04
AUG.										
18...	--	118	--	83	24	216	7.6	--	17	.05
SEP.										
01...	--	117	--	82	26	213	7.4	--	10	.09
15...	--	108	--	74	25	189	7.2	--	10	.05
29...	--	111	--	78	26	197	7.3	--	13	.04

01372575 HUDSON RIVER AT BEACON, N.Y.

LOCATION.--Lat 41°30'18", Long 73°59"31", Dutchess County, at point of land in Beacon, 1.0 mile downstream from Beacon-Newburgh Bridge and 0.8 mile upstream from north end of Denning Point.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 08...	1120	.6	10	0	27	5.8	28	2.0	72	0
NOV. 12...	1005	2.5	40	0	27	6.6	41	2.7	62	0
DEC. 09...	1055	4.6	ND	0	24	4.3	8.9	1.3	60	0
MAR. 10...	1045	5.2	ND	20	28	5.0	16	1.7	68	0
APR. 08...	1115	4.8	120	80	27	4.8	10	1.3	71	0
MAY 05...	1025	4.0	ND	0	19	3.9	4.8	.8	56	0
JUNE 02...	0950	3.6	30	0	16	3.2	4.5	.8	46	0
JULY 28...	0955	.2	20	0	21	5.0	19	1.2	60	0
AUG. 25...	0945	.2	30	0	25	5.3	10	1.2	76	0
SEP. 22...	1110	1.9	ND	0	23	4.3	7.8	1.5	59	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT. 08...	59	32	45	.1	.36	--	.04	.27	3.4	.40
NOV. 12...	51	37	63	.1	.28	--	.04	.19	4.5	.49
DEC. 09...	49	29	14	.1	.58	--	.02	.15	4.8	1.2
MAR. 10...	56	28	25	.1	2.4	--	.08	.52	4.2	.37
APR. 08...	58	26	16	.0	.73	--	.06	.36	3.8	.36
MAY 05...	46	16	8.0	.0	.33	--	.12	.22	2.6	.31
JUNE 02...	38	15	7.6	.0	.45	--	.20	.13	2.4	.16
JULY 28...	49	20	30	.1	2.1	2.5	.12	.13	1.5	.09
AUG. 25...	62	24	16	.1	.60	1.2	.30	.14	1.8	.40
SEP. 22...	48	24	12	.1	.57	1.3	.01	.05	3.1	.43

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 08...	205	180	26	92	33	345	7.6	14	10	.04
NOV. 12...	233	215	23	94	43	422	7.3	22	12	.06
DEC. 09...	134	122	24	78	29	213	7.3	24	15	.04
MAR. 10...	167	150	26	90	34	260	7.5	20	14	.07
APR. 08...	140	130	29	87	29	234	7.3	21	12	.05
MAY 05...	--	87	--	63	18	158	7.5	10	15	.03
JUNE 02...	--	76	--	53	15	139	7.4	--	10	.04
JULY 28...	--	130	--	73	24	245	7.5	--	8	.04
AUG. 25...	--	122	--	84	22	225	7.6	--	13	.05
SEP. 22...	--	108	--	75	27	190	7.4	--	8	.05

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, N.Y.

LOCATION.--Lat 41°34'22", long 73°48'25", Dutchess County, temperature recorder at gaging station on right bank 400 ft upstream from bridge on State Highway 376, 500 ft upstream from small tributary, and 0.6 mile south of State Highway 82, at Hopewell Junction.

DRAINAGE AREA.--57.3 sq mi

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 25.0°C July 1, 8, 27, 29, Aug. 10-12; minimum, freezing point on many days during December to February.

Period of record:
Water temperatures: Maximum, 27.0°C July 13, 1966; minimum, freezing point on many days during winter periods.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
JAN.									
08...	1115	F56	4.9	33	8.0	5.3	1.0	112	0
MAR.									
02...	1240	375	5.5	23	6.5	4.4	1.0	74	0
AUG.									
28...	1425	655	3.6	13	4.7	2.8	1.9	45	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
JAN.									
08...	92	27	11	.0	.04	.13	2.2	171	148
MAR.									
02...	61	21	11	.1	.02	.05	3.6	115	113
AUG.									
28...	37	16	4.5	.0	--	--	2.2	--	122

DATE	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)
JAN.								
08...	29	118	26	281	8.0	.0	2	15.3
MAR.								
02...	--	84	23	201	7.7	2.0	8	--
AUG.								
28...	--	52	15	142	7.0	19.0	--	8.6

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	13.0	9.5	8.5	5.0	4.5	0.0	0.0	0.5	0.5	3.5	1.5
2	13.5	13.0	9.5	9.5	5.5	4.5	0.0	0.0	0.5	0.5	3.0	1.5
3	14.5	13.0	10.0	9.0	5.5	5.0	0.0	0.0	0.5	0.5	2.0	1.5
4	14.5	13.5	10.0	10.0	5.5	5.0	0.0	0.0	0.5	0.5	1.5	0.5
5	13.5	12.0	10.0	9.0	5.0	3.0	0.0	0.0	0.5	0.5	1.0	0.5
6	12.0	11.5	9.0	8.0	3.0	1.5	0.0	0.0	0.5	0.5	2.0	1.0
7	13.5	12.0	8.0	7.0	1.5	0.5	0.0	0.0	0.5	0.5	2.0	1.5
8	14.0	13.5	7.0	7.0	0.5	0.0	0.0	0.0	0.5	0.5	1.5	1.0
9	14.5	14.0	8.0	7.0	1.0	0.5	0.0	0.0	0.5	0.5	1.5	1.0
10	15.5	14.5	8.5	8.0	2.0	1.0	0.0	0.0	0.5	0.5	2.0	1.0
11	16.0	15.5	9.5	8.5	3.0	1.5	0.0	0.0	0.5	0.5	2.0	2.0
12	16.0	15.5	10.0	9.5	1.5	0.5	0.0	0.0	0.5	0.0	3.0	2.0
13	16.0	15.5	10.0	10.0	0.5	0.5	0.0	0.0	0.0	0.0	3.0	3.0
14	16.5	16.0	10.0	9.5	1.5	0.5	0.0	0.0	0.0	0.0	3.0	3.0
15	16.5	16.5	9.5	9.0	1.5	0.5	0.0	0.0	0.0	0.0	4.5	3.5
16	16.5	14.0	9.0	7.0	1.0	0.0	0.0	0.0	0.0	0.0	6.0	4.5
17	14.0	10.5	7.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	6.0	4.5
18	10.5	9.5	5.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.0
19	10.0	10.0	6.5	5.0	0.5	0.0	0.0	0.0	0.5	0.0	4.5	3.5
20	10.0	9.0	8.0	6.5	1.5	0.5	0.0	0.0	1.0	0.5	3.5	2.0
21	10.0	9.5	8.0	7.0	1.5	1.0	0.0	0.0	2.0	1.0	4.0	3.5
22	12.0	10.0	7.0	6.5	1.0	0.0	0.0	0.0	1.5	1.5	4.5	3.5
23	14.0	12.0	6.5	5.5	0.0	0.0	0.0	0.0	1.5	1.5	5.0	4.5
24	15.0	14.0	5.5	3.0	0.0	0.0	0.0	0.0	1.5	1.5	5.0	3.5
25	14.5	13.5	3.0	2.0	0.0	0.0	0.0	0.0	2.0	1.5	4.5	3.0
26	13.5	12.0	2.0	1.5	0.0	0.0	0.0	0.0	3.0	2.0	4.5	3.5
27	12.0	10.5	4.0	2.0	0.0	0.0	0.0	0.0	3.0	2.0	5.5	4.0
28	10.5	9.0	4.5	4.0	0.0	0.0	0.0	0.0	3.0	1.5	5.0	4.0
29	9.0	8.0	5.0	5.0	0.0	0.0	0.0	0.0	---	---	5.0	5.0
30	8.5	8.0	5.5	5.0	0.0	0.0	0.5	0.0	---	---	5.0	5.0
31	8.5	8.0	---	---	0.0	0.0	0.5	0.5	---	---	5.0	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.0	10.5	9.0	15.5	14.5	25.0	23.5	24.0	23.5	19.5	18.5
2	8.5	6.0	10.5	10.5	15.5	15.0	24.5	23.5	23.5	23.5	18.5	18.0
3	8.5	8.0	10.5	10.0	16.5	15.5	23.5	21.0	24.0	23.0	20.0	18.5
4	8.5	8.0	10.0	9.0	19.0	16.0	23.5	20.0	22.0	21.5	21.0	19.5
5	8.5	7.0	11.5	8.0	19.5	18.5	23.5	21.0	21.5	20.5	21.5	20.5
6	7.0	6.5	11.5	10.5	18.5	16.5	23.5	21.0	23.5	21.0	21.5	21.0
7	6.5	3.0	12.0	10.0	19.5	17.0	24.5	22.0	23.5	21.0	21.0	20.5
8	6.0	4.0	12.0	10.5	21.0	19.0	25.0	23.0	24.5	21.5	21.0	20.0
9	8.5	5.0	10.5	10.0	21.5	20.0	24.5	23.5	24.5	22.0	21.0	20.0
10	8.5	8.0	13.0	10.0	20.5	19.0	24.5	23.0	25.0	24.0	21.0	20.0
11	9.0	6.5	14.5	12.0	19.5	18.0	24.0	21.5	25.0	24.5	20.5	20.0
12	10.0	8.0	14.5	14.0	20.0	18.0	23.0	20.5	25.0	23.5	20.0	20.0
13	11.5	9.0	14.5	11.5	20.5	19.0	22.0	20.5	24.0	21.5	20.0	20.0
14	11.5	10.0	13.5	11.0	20.5	19.5	23.0	21.5	24.0	21.5	20.0	19.5
15	10.0	8.5	13.5	10.5	20.5	18.5	23.5	21.0	23.5	21.5	19.5	19.5
16	9.0	8.5	12.0	11.0	19.5	18.0	23.5	22.0	23.0	21.0	19.5	19.0
17	9.5	7.0	14.0	11.0	20.5	18.0	23.5	21.5	22.0	20.5	19.5	19.0
18	9.5	9.0	15.0	13.0	21.0	19.0	23.0	21.5	23.5	21.0	19.5	19.5
19	11.5	8.5	15.5	14.5	22.0	20.0	23.5	21.5	23.0	22.0	19.5	18.5
20	12.0	11.0	16.0	15.0	22.0	20.5	22.0	21.0	23.5	22.0	18.5	18.0
21	13.0	12.0	16.0	14.0	22.0	21.0	23.0	20.5	23.5	22.0	18.0	18.0
22	12.0	10.0	14.0	13.0	24.0	21.0	23.5	21.0	24.0	22.0	18.5	17.0
23	11.0	9.5	13.5	13.0	24.0	21.5	24.0	22.0	24.0	21.5	17.0	16.0
24	11.0	10.5	14.0	13.5	24.5	22.0	24.0	23.0	21.5	19.5	16.0	16.0
25	11.0	8.5	14.5	13.5	24.0	22.0	24.0	23.5	20.0	18.5	16.0	15.0
26	9.0	8.5	14.5	14.5	24.0	23.5	24.5	23.5	21.5	19.5	15.0	15.0
27	10.5	9.5	14.5	13.5	24.0	21.5	25.0	24.0	21.5	19.5	15.5	15.0
28	10.5	9.0	14.0	13.5	24.0	22.0	24.5	22.0	21.0	19.5	15.5	15.5
29	9.0	9.0	15.0	14.0	22.0	21.0	25.0	23.5	20.5	20.0	16.5	15.5
30	9.0	9.0	15.0	14.0	24.0	21.5	24.5	24.0	20.5	19.5	17.0	16.5
31	---	---	14.5	14.0	---	---	24.5	23.5	20.0	19.5	---	---

01373500 FISHKILL CREEK AT BEACON, N.Y.

LOCATION.--Lat 41°30'40", long 73°56'55", Dutchess County, at former gaging station, at Bridge Street Bridge in Beacon, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--190 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, April 1969 to September 1971.
Water temperatures: October 1961 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 27.0°C July 1, 9; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 27.0°C July 20, 1964, July 14, 1966, July 18, 1969; and July 1, 9, 1971; minimum, freezing point on many days during winter periods some years.

REMARKS.--Water temperature measurements are made at lat 41°31'01", long 73°56'17", at the Texaco Research Center, 0.8 mile upstream from former gaging station. No water temperature measurements made on weekends and holidays. Twice daily measurement begun January 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.
Water temperature records furnished by Texaco Incorporated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
08...	1155	5.8	20	10	38	9.9	16	1.5	132	0
NOV.										
12...	1035	5.9	50	20	34	8.2	14	1.3	100	0
DEC.										
09...	1125	6.1	70	60	38	8.5	12	1.0	106	0
JAN.										
13...	1110	6.3	60	80	33	7.6	9.1	.9	90	0
FEB.										
03...	1155	5.0	90	90	42	10	12	.1	120	0
MAR.										
10...	1145	6.1	30	0	28	6.2	7.0	1.0	73	0
APR.										
08...	--	3.8	60	30	25	6.4	7.0	.8	76	0
MAY										
05...	1050	3.9	80	30	28	8.9	7.3	1.0	95	0
JUNE										
02...	1020	5.2	100	0	33	9.5	8.8	.9	108	0
JULY										
01...	1100	6.9	30	0	43	12	20	1.4	140	0
28...	1030	4.2	50	120	43	13	40	2.0	154	0
AUG.										
25...	1020	3.4	50	0	43	12	29	1.6	155	0
SEP.										
22...	1135	8.3	120	0	30	8.4	6.4	1.4	99	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
08...	108	36	24	.1	.54	--	.07	.72	2.2	1.2
NOV.										
12...	82	35	23	.1	.41	--	.15	.39	4.7	.36
DEC.										
09...	87	33	19	.1	.50	--	.06	.36	4.8	1.0
JAN.										
13...	74	30	20	.2	.43	--	.08	.45	5.3	.37
FEB.										
03...	98	33	23	.2	.43	--	.08	.30	4.4	--
MAR.										
10...	60	26	14	.2	.75	--	.04	.30	4.5	.15
APR.										
08...	62	24	14	.0	.81	--	.05	.32	3.3	.55
MAY										
05...	78	23	11	.1	.45	--	.10	.24	3.2	.19
JUNE										
02...	89	23	15	.0	.90	--	.19	.21	2.5	.22
JULY										
01...	115	30	35	.1	.31	1.9	.53	.53	4.8	.16
28...	126	39	56	.1	1.4	3.0	.03	2.0	.0	.74
AUG.										
25...	127	38	39	.1	1.9	3.3	.13	.81	3.2	1.2
SEP.										
22...	81	23	11	.0	.60	1.1	.02	.09	2.2	.28

01373500 FISHKILL CREEK AT BEACON, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 08...	212	201	23	136	28	376	7.6	13	23	.04
NOV. 12...	190	176	14	118	36	323	7.1	9	12	.04
DEC. 09...	182	176	36	130	43	304	7.7	9	15	.04
JAN. 13...	165	158	25	114	40	281	7.5	10	11	.04
FEB. 03...	181	190	19	150	52	345	7.6	5	12	.04
MAR. 10...	157	130	39	95	35	227	7.5	10	8	.04
APR. 08...	131	124	24	88	26	226	7.6	19	6	.04
MAY 05...	--	134	--	107	29	247	7.8	15	10	.05
JUNE 02...	--	153	--	122	33	271	7.7	--	12	.04
JULY 01...	--	224	--	160	42	394	7.9	--	9	.04
28..	--	277	--	160	35	502	7.2	--	25	.07
AUG. 25...	--	250	--	160	30	441	7.7	--	26	.11
SEP. 22...	--	140	--	110	28	238	7.6	--	12	.03

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01373500 FISHKILL CREEK AT BEACON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	13.5	---	---	---	5.5	---	---	---	0.5	0.5	3.0	4.5
2	13.0	---	8.5	---	6.0	---	---	---	0.5	0.5	3.0	3.5
3	---	---	8.5	---	6.5	---	---	---	0.5	0.5	3.0	3.0
4	---	---	9.5	---	8.0	---	0.5	0.5	0.5	0.5	0.5	0.5
5	13.0	---	10.0	---	---	---	0.5	1.0	0.5	0.5	0.5	1.0
6	12.0	---	8.5	---	---	---	0.5	0.5	---	---	---	---
7	13.0	---	---	---	1.5	---	0.5	0.5	---	---	---	---
8	13.5	---	---	---	0.0	---	0.0	0.5	0.5	0.5	1.5	1.5
9	14.0	---	7.0	---	1.0	---	---	---	0.5	0.5	1.0	2.0
10	---	---	8.0	---	2.0	---	---	---	0.5	0.5	1.5	3.5
11	---	---	9.5	---	2.0	---	0.5	0.5	0.0	0.5	3.5	4.0
12	16.0	---	11.0	---	---	---	0.5	1.0	0.0	0.5	2.0	4.5
13	16.0	---	11.0	---	---	---	0.0	0.0	---	---	---	---
14	17.0	---	---	---	0.5	---	0.5	0.5	---	---	---	---
15	18.5	---	---	---	0.5	---	0.0	0.5	---	---	5.5	6.5
16	16.5	---	9.0	---	0.0	---	---	---	0.5	0.5	5.5	7.0
17	---	---	6.5	---	0.5	---	---	---	0.0	0.5	8.0	6.0
18	---	---	5.0	---	0.5	---	0.0	0.0	0.5	0.5	4.0	5.5
19	10.5	---	---	---	---	---	0.0	0.0	0.5	0.5	4.5	4.5
20	9.5	---	---	---	---	---	0.0	0.0	---	---	---	---
21	10.0	---	---	---	1.5	---	0.0	1.0	---	---	---	---
22	11.0	---	---	---	1.0	---	0.5	1.0	0.5	0.5	4.5	5.0
23	13.0	---	---	---	0.5	---	---	---	0.5	1.5	4.5	6.0
24	---	---	---	---	0.5	---	---	---	1.0	1.5	4.0	4.0
25	---	---	1.5	---	---	---	0.5	1.0	1.5	3.0	2.0	4.0
26	13.0	---	---	---	---	---	0.5	0.5	2.0	3.0	3.0	4.5
27	11.5	---	---	---	---	---	0.0	0.0	---	---	---	---
28	9.0	---	---	---	0.5	---	1.0	0.0	---	---	---	---
29	8.0	---	---	---	0.5	---	0.5	---	---	---	6.0	7.0
30	7.0	---	6.5	---	0.0	---	---	---	---	---	6.0	7.0
31	---	---	---	---	0.0	---	---	---	---	---	6.0	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	5.5	7.0	---	---	14.0	17.0	24.5	27.0	---	---	16.5	18.5
2	6.5	8.5	---	---	15.0	17.0	24.5	25.5	22.0	23.0	15.5	18.0
3	---	---	10.5	10.5	15.5	19.5	---	---	21.5	24.0	16.5	19.5
4	---	---	10.0	9.0	17.0	21.0	---	---	19.0	21.0	---	---
5	8.0	8.5	9.0	11.0	---	---	---	---	19.0	22.0	---	---
6	6.5	6.5	11.5	12.0	---	---	21.5	24.0	19.5	22.0	---	---
7	4.0	4.5	10.5	14.0	19.0	22.0	23.0	25.5	---	---	20.0	22.0
8	3.5	5.5	---	---	20.5	24.0	24.0	26.5	---	---	21.0	22.0
9	---	---	---	---	21.0	23.5	24.5	27.0	22.0	25.5	20.5	23.0
10	---	---	10.0	13.5	20.0	22.0	---	---	23.5	25.5	20.5	21.5
11	---	---	13.0	16.5	19.0	20.5	---	---	24.5	25.0	---	---
12	8.5	10.5	15.5	17.0	---	---	21.0	24.0	23.0	25.0	---	---
13	10.0	---	15.0	13.5	---	---	21.0	24.0	20.5	24.0	20.5	20.5
14	---	---	11.0	13.0	20.0	21.0	22.0	24.0	---	---	19.0	19.5
15	---	---	---	---	19.5	19.0	22.0	25.0	---	---	19.0	20.5
16	---	---	---	---	16.5	20.0	22.0	24.0	20.5	23.0	19.5	20.5
17	---	---	11.5	15.0	17.0	21.0	---	---	20.0	23.0	18.5	19.0
18	---	---	14.5	18.0	19.0	22.0	---	---	20.0	23.5	---	---
19	---	---	18.0	19.0	---	---	21.5	22.0	21.0	23.5	---	---
20	---	---	16.5	19.0	---	---	21.0	22.0	22.0	24.5	16.5	17.0
21	---	---	16.5	15.5	22.0	24.5	19.5	21.5	---	---	17.0	18.5
22	---	---	---	---	22.0	24.5	20.5	24.0	---	---	15.5	16.5
23	---	---	---	---	21.5	25.0	21.0	25.0	23.5	24.5	14.5	15.0
24	---	---	13.5	15.5	22.0	25.5	---	---	20.5	23.5	---	---
25	---	---	14.5	16.5	23.5	25.5	---	---	18.5	21.0	---	---
26	---	---	15.5	16.5	---	---	24.0	26.0	19.5	23.0	---	---
27	---	---	14.0	15.5	---	---	24.5	26.5	20.0	20.0	---	---
28	10.0	10.0	13.5	15.5	23.5	24.0	23.0	25.5	---	---	---	---
29	9.0	9.5	---	---	21.5	22.0	24.5	26.5	---	---	---	---
30	8.5	9.5	---	---	22.0	24.5	23.5	23.5	19.5	21.0	---	---
31	---	---	---	---	---	---	---	---	19.0	20.0	---	---

01373860 MOODNA CREEK NEAR NEW WINDSOR, N.Y.

LOCATION.--Lat 41°27'32", Long 74°01'27", Orange County, at bridge on State Highway 9W, 0.6 mile upstream from mouth and 1.5 miles south of New Windsor.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 08...	1040	3.2	20	30	48	5.9	31	2.4	116	0	95
DEC. 09...	1020	4.5	80	50	34	5.4	15	1.6	72	0	59
MAR. 10...	0950	5.0	50	20	22	3.6	13	1.4	42	0	34
APR. 08...	1100	2.3	60	60	21	3.6	11	1.2	45	0	37
MAY 05...	0950	1.0	110	30	28	6.5	28	1.8	81	0	66
JUNE 02...	1120	2.0	160	50	28	4.9	14	1.2	76	0	62
JULY 01...	0955	7.3	400	170	38	7.2	27	1.8	159	0	130
28...	1040	11	920	1400	46	7.4	54	2.6	243	0	199
AUG. 25...	1040	7.6	720	1000	46	8.0	60	2.6	280	0	230
SEP. 22...	1000	8.1	160	0	29	5.0	15	2.1	76	0	62

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 08...	37	50	.2	.44	--	.96	1.5	.7	.58	254
DEC. 09...	40	24	.1	.65	--	.08	.63	2.9	.48	166
MAR. 10...	25	24	.1	1.0	--	.06	.26	4.8	.23	138
APR. 08...	25	21	.0	.92	--	.04	.30	1.7	.31	118
MAY 05...	31	47	.0	1.0	--	.16	.60	.7	.28	198
JUNE 02...	26	23	.1	.84	--	.07	.43	2.3	.18	--
JULY 01...	35	35	.0	2.2	10	.03	10	.0	2.1	--
28...	55	47	.1	2.2	12	.11	13	.0	20	--
AUG. 25...	40	41	.3	22	42	.02	25	.1	7.6	--
SEP. 22...	27	23	.1	.73	1.3	.06	.12	2.1	.77	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 08...	239	30	144	49	437	7.5	23	30	--	.12
DEC. 09...	164	7	107	48	292	7.1	12	15	--	.07
MAR. 10...	121	34	70	36	221	7.3	20	10	--	.00
APR. 08...	111	20	67	30	207	7.0	26	20	--	.05
MAY 05...	186	33	96	30	344	7.5	20	21	--	.06
JUNE 02...	140	--	90	28	243	7.3	--	29	--	.07
JULY 01...	245	--	130	0	409	7.1	--	--	78	.12
28...	379	--	150	0	562	7.1	--	--	105	.20
AUG. 25...	399	--	150	0	642	7.3	--	--	246	.87
SEP. 22...	151	--	93	31	256	7.5	--	30	--	.07

01374085 HUDSON RIVER AT BEAR MOUNTAIN, N.Y.

LOCATION.--Lat 41°18'51", Long 73°59'08", Rockland County, at south dock of Bear Mountain State Park, at Bear Mountain, and 0.4 mile downstream from Bear Mountain Bridge.

PERIOD OF RECORD.--Chemical analyses, April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
08...	1010	.8	30	10	46	51	477	15	74	0
DEC.										
09...	0950	4.4	90	0	26	4.7	10	1.5	64	0
JAN.										
13...	1015	4.7	80	50	29	5.6	26	1.8	60	0
MAR.										
10...	1045	5.1	60	30	26	3.9	11	1.5	60	0
APR.										
08...	1010	4.6	90	0	27	4.6	8.9	1.3	69	0
MAY										
05...	1035	4.1	70	0	20	3.8	5.5	.9	56	0
JUNE										
02...	1030	3.8	40	0	17	3.2	5.4	.8	43	0
JULY										
01...	1040	1.7	50	0	24	10	63	3.4	53	0
28...	0945	.6	150	0	28	28	240	10	58	0
AUG.										
25...	0950	.3	30	10	30	27	200	9.1	70	0
SEP.										
22...	1045	1.8	30	0	23	4.8	8.0	1.4	59	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
08...	61	106	855	.1	.28	--	.11	.26	2.6	.44
DEC.										
09...	52	31	15	.2	.57	--	.03	.11	4.7	.49
JAN.										
13...	49	29	46	.0	.35	--	.06	.54	2.5	.49
MAR.										
10...	49	26	19	.1	.64	--	.40	.43	3.8	.32
APR.										
08...	57	26	15	.0	.82	--	.05	.20	4.1	.23
MAY										
05...	46	16	8.6	.1	.41	--	.23	.17	2.8	.21
JUNE										
02...	35	15	14	.1	.32	--	.11	.07	2.4	.24
JULY										
01...	43	33	110	.0	.31	.98	.00	.00	2.9	.31
28...	48	73	420	.1	.48	1.2	.23	.11	2.5	.55
AUG.										
25...	57	68	360	.1	.71	1.3	.01	.22	1.9	.46
SEP.										
22...	48	22	14	.1	.58	1.2	.01	.03	2.7	.34

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
08...	1710	1590	8	325	264	3040	7.8	16	13	.13
DEC.										
09...	151	130	16	84	31	220	7.4	15	16	.06
JAN.										
13...	185	176	25	95	46	322	7.4	6	17	.04
MAR.										
10...	153	128	24	81	32	227	7.7	18	12	.04
APR.										
08...	140	127	23	86	30	225	7.3	21	10	.04
MAY										
05...	96	90	18	65	20	161	7.5	10	12	.04
JUNE										
02...	--	83	--	55	20	142	7.4	--	8	.04
JULY										
01...	--	275	--	100	58	533	7.3	--	9	.04
28...	--	832	--	190	140	1550	7.4	--	12	.08
AUG.										
25...	--	732	--	190	130	1370	7.6	--	15	.09
SEP.										
22...	--	108	--	77	29	203	7.4	--	15	.04

01374350 HUDSON RIVER AT VERPLANCK, N.Y.

LOCATION.--Lat 41°15'23", Long 73°57'29", Westchester County, at pier at end of 6th Street in Verplanck and across the river from Tomkins Cove.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
08...	1320	.8	20	20	48	67	640	21	70	0
NOV.										
12...	1150	1.7	10	20	60	96	950	39	70	0
DEC.										
09...	1250	4.2	70	10	26	5.5	20	2.1	62	0
JAN.										
13...	1105	4.6	60	30	35	26	230	9.8	60	0
FEB.										
03...	1030	4.8	100	0	34	11	82	4.4	69	0
MAR.										
10...	1330	5.2	60	30	27	4.2	12	1.6	59	0
APR.										
08...	1250	4.6	90	0	21	6.7	34	2.6	70	0
MAY										
05...	1245	4.2	60	0	20	3.8	4.9	1.0	59	0
JUNE										
02...	1115	3.8	40	60	22	14	94	4.6	48	0
JULY										
01...	1230	2.4	30	0	40	27	170	9.8	54	0
28...	1140	.7	40	0	34	46	420	18	60	0
AUG.										
25...	1125	.4	40	0	43	60	650	24	70	0
SEP.										
22...	1300	1.3	50	0	24	4.9	12	1.6	67	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
08...	57	108	1180	.3	.24	--	.08	.45	2.5	.48
NOV.										
12...	57	284	1700	.4	.10	--	.05	.22	3.3	.70
DEC.										
09...	51	35	34	.2	.44	--	.16	.14	4.9	.52
JAN.										
13...	49	82	425	.2	.58	--	.04	.54	2.4	.46
FEB.										
03...	57	48	160	.1	.34	--	.03	.70	2.1	.06
MAR.										
10...	48	26	20	.1	.64	--	.06	.57	3.8	.39
APR.										
08...	57	33	59	.0	.65	--	.10	.36	4.2	.32
MAY										
05...	48	16	8.3	.0	.48	--	.16	.24	2.7	.23
JUNE										
02...	39	40	170	.1	.58	--	.27	.14	2.2	.14
JULY										
01...	44	65	350	.1	.35	1.1	.03	.10	3.1	.25
28...	49	120	780	.2	.60	1.2	.04	.14	2.3	.58
AUG.										
25...	57	160	1100	.2	.70	1.5	.03	.37	2.3	.64
SEP.										
22...	55	23	17	.1	.67	1.3	.01	.13	2.5	.43

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01374350 HUDSON RIVER AT VERPLANCK, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
08...	2290	2100	248	396	339	4020	7.1	24	11	.15
NOV.										
12...	3360	3170	288	545	488	5800	7.2	18	18	.20
DEC.										
09...	176	163	25	88	37	289	7.4	19	15	.06
JAN.										
13...	878	846	88	194	145	1620	7.2	13	16	.10
FEB.										
03...	374	382	40	130	73	715	7.4	13	14	.06
MAR.										
10...	157	131	28	84	36	233	7.3	20	17	.05
APR.										
08...	228	207	38	95	38	389	7.5	21	8	.05
MAY										
05...	--	91	--	65	17	166	7.5	9	8	.03
JUNE										
02...	--	375	--	113	73	714	7.3	--	10	.07
JULY										
01...	--	695	--	210	170	1290	7.2	--	12	.07
28...	--	1450	--	270	230	2640	7.5	--	16	.12
AUG.										
25...	--	2080	--	350	300	3500	7.3	--	20	.15
SEP.										
22...	--	121	--	80	25	212	7.6	--	13	.06

01376269 HUDSON RIVER AT PIERMONT, N.Y.

LOCATION.--Lat 41°02'34", Long 73°53'48", Rockland County, at end of pier in Piermont, 0.3 mile upstream from Sparkill Creek and 1.8 miles downstream from Tappen Zee Bridge.

PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
14...	1105	1.4	10	50	120	260	2480	98	86	0	71
NOV.											
12...	1030	1.6	20	70	105	240	2400	92	92	0	75
DEC.											
16...	1125	3.6	50	0	50	77	690	30	67	0	55
JAN.											
20...	0955	4.1	60	90	98	130	1300	50	79	0	65
FEB.											
17...	1045	4.9	110	10	57	96	800	34	84	0	69
MAR.											
17...	0950	5.5	80	60	25	5.4	23	2.1	67	0	55
APR.											
14...	1120	4.6	100	40	39	43	340	15	70	0	57
MAY											
12...	1125	3.3	20	0	21	4.9	16	1.5	60	0	49
JUNE											
09...	1000	2.0	30	50	86	190	1640	29	64	0	52
JULY											
07...	1120	1.6	40	100	114	260	2000	79	68	0	56
AUG.											
04...	1000	.9	40	60	88	180	1700	69	68	0	56
SEP.											
02...	1535	2.1	30	40	65	130	1200	50	85	0	70
29...	0950	1.4	40	0	41	54	420	21	73	0	60

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.										
14...	640	4500	.4	.21	--	1.4	.17	4.2	.96	8730
NOV.										
12...	680	4200	.4	.56	--	.12	.98	2.7	1.2	7860
DEC.										
16...	192	1400	.3	.87	--	.12	.81	2.5	.79	2600
JAN.										
20...	340	2150	.3	.17	--	.09	.70	1.9	.73	4550
FEB.										
17...	104	1410	.2	.13	--	.06	3.1	1.5	--	2690
MAR.										
17...	32	39	.1	.93	--	.06	1.3	3.6	.71	185
APR.										
14...	110	620	.2	.59	--	.05	1.1	3.4	.76	1260
MAY										
12...	18	28	.1	.52	--	.02	.47	2.7	.62	--
JUNE										
09...	430	2900	.3	.58	--	.07	.09	2.5	.57	--
JULY										
07...	511	3800	.4	.62	1.5	.10	.74	1.4	.60	--
AUG.										
04...	390	3030	.5	1.0	1.5	.09	.36	1.1	.86	--
SEP.										
02...	300	2100	.2	1.2	5.0	.00	.27	1.5	--	--
29...	120	780	.5	.66	1.2	.04	.35	2.2	.40	--

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01376269 HUDSON RIVER AT PIERMONT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDUC-TANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
14...	8150	836	1370	1300	14000	7.4	7	27	--	.34
NOV.										
12...	7770	640	1250	1180	12800	7.1	15	36	--	.34
DEC.										
16...	2480	258	442	387	4430	7.6	13	28	--	.30
JAN.										
20...	4120	376	780	715	7450	7.4	20	21	--	.27
FEB.										
17...	2550	220	540	471	5030	7.4	17	36	--	.21
MAR.										
17...	172	66	86	30	309	7.5	20	14	--	.06
APR.										
14...	1210	133	272	216	2230	7.3	19	17	--	.10
MAY										
12...	127	--	72	23	231	7.4	--	13	--	.06
JUNE										
09...	5300	--	997	966	8990	7.5	--	62	--	.26
JULY										
07...	6800	--	1400	1300	10700	7.4	--	--	16	.29
AUG.										
04...	5600	--	960	910	9280	7.6	--	--	44	.25
SEP.										
02...	3910	--	700	630	6620	7.4	--	--	8	.23
29...	1480	--	330	270	2630	7.5	--	17	--	.13

01376510 HUDSON RIVER AT YONKERS, N.Y.

LOCATION.--Lat 40°55'00", Long 73°54'41", Westchester County, at south end of dock at the Westchester County Joint Sewage Treatment Plant in Yonkers, and at Yonkers-New York City line.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
14...	1230	1.6	10	40	190	500	4600	160	90	0	74
NOV.											
12...	1315	2.9	180	90	150	350	3600	150	130	0	107
DEC.											
16...	0925	3.3	30	20	79	160	1500	62	78	0	64
JAN.											
20...	1100	4.1	40	60	110	220	2200	82	85	0	70
FEB.											
17...	0940	4.0	60	80	112	190	1600	68	86	0	71
MAR.											
17...	1110	5.0	80	40	40	46	380	16	66	0	54
APR.											
14...	0945	4.4	90	60	40	55	430	18	71	0	58
MAY											
12...	0940	3.9	20	10	24	17	120	5.3	56	0	46
JULY											
07...	0930	1.4	40	90	232	420	3400	130	80	0	66
AUG.											
04...	1115	.8	40	80	136	340	3000	120	80	0	66
SEP.											
02...	0850	1.8	10	40	100	280	2200	89	89	0	73
29...	1105	1.4	20	0	75	170	1500	58	81	0	66

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.										
14...	1020	8400	.3	.42	--	1.6	.36	18	2.2	15700
NOV.										
12...	870	6520	1.0	1.2	--	.40	12	.5	9.6	12700
DEC.										
16...	388	2810	.5	.87	--	.19	.80	2.2	.69	5300
JAN.										
20...	524	3560	.5	.33	--	.12	.58	1.6	.68	7300
FEB.										
17...	430	3000	.4	.50	--	.10	5.7	1.1	.61	5530
MAR.										
17...	120	720	.2	.61	--	.06	.88	3.0	.54	1390
APR.										
14...	25	780	.2	.57	--	.04	.42	3.3	.41	1570
MAY										
12...	43	210	.1	.40	--	.12	.37	2.5	.49	--
JULY										
07...	810	6100	.6	.66	1.5	.13	.83	.8	.46	--
AUG.										
04...	720	5400	.8	.62	1.2	.18	.49	.9	.98	--
SEP.										
02...	560	4000	1.6	1.4	5.3	6.9	.27	9.7	1.3	--
29...	340	2700	.4	.61	1.4	.09	.54	1.7	.64	--

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01376510 HUDSON RIVER AT YONKERS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.										
14...	14900	1480	2530	2460	24000	7.2	3	--	111	.52
NOV.										
12...	11700	792	1810	1700	19100	6.6	21	--	166	.63
DEC.										
16...	5050	400	856	792	9000	7.1	18	34	--	.34
JAN.										
20...	6750	686	1180	1110	12000	7.4	7	17	--	.40
FEB.										
17...	5450	476	1100	1030	9040	7.6	18	55	--	.25
MAR.										
17...	1360	144	289	235	2500	7.3	17	15	--	.12
APR.										
14...	1390	160	326	268	2770	7.6	19	17	--	.12
MAY										
12...	455	--	130	84	857	7.4	--	11	--	.04
JULY										
07...	11100	--	2300	2200	16800	7.5	--	--	24	.41
AUG.										
04...	9760	--	1700	1700	15800	7.4	--	--	0	.37
SEP.										
02...	7290	--	1400	1300	11800	7.1	--	--	0	.31
29...	4890	--	890	820	8030	7.3	--	23	--	.27

01376905 HACKENSACK RIVER NEAR ORANGEBURG, N.Y.

LOCATION.--Lat 41°02'39", Long 73°59'18", Orange County, at bridge on Orangeburg Road (Veterans Memorial Drive), 300 ft east of Hunt Road and 2 miles west of Orangeburg.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
14...	1030	.8	240	0	30	4.9	19	1.7	78	0
NOV.										
12...	0950	7.2	500	420	40	6.1	23	4.2	92	0
DEC.										
16...	1045	6.8	150	300	54	8.7	150	5.0	111	0
FEB.										
17...	1120	6.3	540	250	31	5.3	34	3.7	75	0
MAR.										
17...	0910	6.1	110	40	32	4.6	45	2.8	70	0
APR.										
14...	1050	2.7	70	20	33	6.7	38	2.7	73	0
MAY										
12...	1050	.9	70	200	34	6.4	29	2.4	91	0
JUNE										
09...	0925	2.4	50	260	36	6.7	35	.4	96	0
JULY										
07...	1045	1.5	100	80	36	6.7	38	2.9	86	4
AUG.										
04...	0920	5.9	210	50	33	6.0	25	3.3	82	0
SEP.										
02...	1505	4.6	160	80	28	5.6	20	3.9	72	0
29...	0915	4.3	50	0	27	5.1	20	2.9	70	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
14...	64	24	36	.1	.32	--	.04	.23	3.2	.80
NOV.										
12...	75	38	45	.3	.75	--	.40	2.4	2.2	.78
DEC.										
16...	91	39	256	.2	.87	--	.19	3.4	3.2	.09
FEB.										
17...	62	36	61	.3	.66	--	.04	1.5	8.9	.36
MAR.										
17...	57	32	78	.1	.95	--	.08	1.1	3.9	.30
APR.										
14...	60	31	68	.2	.30	--	.07	.70	2.9	.19
MAY										
12...	75	26	57	.1	.59	--	.13	.66	2.1	.22
JUNE										
09...	79	26	56	.1	1.2	--	.02	.08	4.6	.10
JULY										
07...	77	31	69	.1	1.3	1.7	.10	.32	.6	.12
AUG.										
04...	67	31	45	.1	1.2	2.8	.07	.23	6.3	.61
SEP.										
02...	59	37	33	.8	2.5	6.9	.01	2.9	9.4	1.0
29...	57	26	30	.1	.88	1.7	.29	.21	2.5	.18

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01376905 HACKENSACK RIVER NEAR ORANGEBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
14...	183	159	35	95	31	309	7.5	10	24	.02
NOV.										
12...	231	215	27	126	51	391	7.0	27	64	.06
DEC.										
16...	606	582	66	171	80	1160	7.8	16	20	.12
FEB.										
17...	234	226	35	100	38	404	7.2	29	16	.08
MAR.										
17...	266	241	37	98	41	462	7.3	19	12	.07
APR.										
14...	265	222	46	110	50	427	7.4	20	17	.06
MAY										
12...	--	204	--	111	37	380	7.5	--	14	.04
JUNE										
09...	--	214	--	118	39	387	7.5	--	42	.05
JULY										
07...	--	234	--	120	40	436	8.4	--	32	.06
AUG.										
04...	--	198	--	110	40	347	7.4	--	31	.06
SEP.										
02...	--	184	--	93	34	305	7.0	--	40	.10
29...	--	154	--	88	31	275	7.1	--	20	.07

01420500 BEAVER KILL AT COOKS FALLS, N.Y.

LOCATION.--Lat 41°56'47", long 74°58'48", Delaware County, at gaging station 125 ft downstream from highway bridge in Cooks Falls, and 5.5 miles downstream from Willowemoc Creek.

DRAINAGE AREA.--241 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1966 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 23...	1030	13500	1.8	10	0	5.3	.7	.8	1.1	6	0	5
NOV. 19...	1410	732	2.1	20	30	6.4	.7	1.0	.3	12	0	10
DEC. 21...	1200	326	2.1	10	0	6.7	.9	1.7	.3	12	0	10
JAN. 22...	1215	200	2.3	20	0	6.8	.9	1.6	.4	14	0	11
FEB. 23...	1030	670	2.1	20	0	6.5	.8	3.5	.3	10	0	8
MAR. 24...	1010	8530	2.0	0	0	6.0	.9	2.0	.4	10	0	8
APR. 20...	1210	2280	1.7	10	0	4.5	.6	.7	.3	6	0	5
MAY 18...	1030	895	1.6	10	0	5.5	.9	1.1	.3	10	0	8
JUNE 29...	1410	93	2.1	10	0	7.5	1.1	2.8	.8	18	0	16
JULY 21...	1415	80	1.6	10	0	8.0	1.1	3.2	.8	19	0	16
SEP. 01...	1230	194	2.0	10	0	7.0	1.0	2.4	.5	17	0	14
21...	1410	200	2.1	30	0	7.0	1.1	2.3	.5	17	0	14

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT. 23...	14	2.0	.0	.35	--	.04	.32	1.3	.94	38	32	19
NOV. 19...	8.6	3.0	.0	.31	--	.01	.07	1.4	.22	31	34	4
DEC. 21...	8.5	3.2	.0	.41	--	.01	.00	1.3	.02	29	31	6
JAN. 22...	9.7	3.8	.1	.03	--	.02	.02	1.7	.00	32	34	4
FEB. 23...	9.9	6.1	.0	.17	--	.01	.05	2.0	.05	33	36	7
MAR. 24...	8.5	4.0	.0	.19	--	.01	.05	2.1	.03	40	31	8
APR. 20...	8.3	1.7	.0	.49	--	.01	.02	2.3	.04	28	23	11
MAY 18...	8.0	2.0	.0	.30	--	.01	.05	1.5	.05	--	26	--
JUNE 29...	8.9	5.0	.0	.19	.55	.03	.11	1.1	.09	--	39	--
JULY 21...	9.0	4.9	.0	.23	.63	.02	.31	.7	.09	--	39	--
SEP. 01...	7.8	3.2	.0	.16	.47	.13	.08	.9	.06	--	34	--
21...	9.1	3.0	.0	.30	.62	.02	.11	1.0	.06	--	35	--

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01420500 BEAVER KILL AT COOKS FALLS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.											
23...	16	11	43	6.1	11.5	16	10.8	92	--	--	.01
NOV.											
19...	19	8	50	6.9	6.0	3	12.4	12	--	--	.04
DEC.											
21...	20	10	55	7.1	.5	2	16.0	2	--	--	.00
JAN.											
22...	20	9	56	7.2	.0	2	13.8	3	--	490	.00
FEB.											
23...	19	11	64	6.9	.5	3	12.4	6	19	470	.03
MAR.											
24...	18	10	57	7.0	.5	3	13.8	3	1	10	.02
APR.											
20...	13	9	40	6.6	6.0	11	--	4	1	30	.02
MAY											
18...	17	9	47	7.1	9.5	--	--	3	5	330	.02
JUNE											
29...	23	8	68	8.9	23.5	--	9.6	3	8	1500	.01
JULY											
21...	25	9	71	7.6	22.0	--	9.2	16	8	350	.01
SEP.											
01...	22	8	63	7.2	17.0	--	9.3	0	38	400	.05
21...	22	8	58	7.2	16.0	--	9.3	3	55	890	.01

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAR.						
24...	0	0	30	5	0	<.5

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.

LOCATION.--Lat 41°58'23", long 75°10'28", Delaware County, temperature recorder at gaging station on left bank 3,000 ft upstream from bridge on County Highway 28, at Fishs Eddy, 0.6 mile upstream from Fish Creek, 4.2 miles downstream from Beaver Kill and 11 miles upstream from the confluence of East and West Branches at Hancock.

DRAINAGE AREA.--783 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, May 1970 to September 1971.
Water temperatures: November 1967 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 28.0°C June 30; minimum, freezing point on many days during winter period.

Period of Record:
Water temperatures: Maximum, 31.0°C July 16-18, 1968; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 to SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 27...	1030	1560	2.4	10	0	6.0	.8	.7	.4	10	0	8
NOV. 25...	1100	1100	2.3	20	0	6.0	.9	1.2	.3	10	0	8
DEC. 21...	1350	620	2.2	10	0	7.0	1.0	1.7	.3	14	0	11
JAN. 21...	1415	1190	2.6	20	0	8.5	1.2	1.8	.4	12	0	10
FEB. 23...	1230	200	2.3	20	0	6.1	1.0	2.8	.4	10	0	8
MAR. 30...	1100	810	1.4	30	0	7.0	1.1	2.3	.5	13	0	11
APR. 27...	1315	1900	1.7	10	0	5.0	1.0	1.1	.4	10	0	8
MAY 18...	1300	1950	1.5	0	0	6.5	1.1	1.2	.4	12	0	10
JUNE 29...	1150	150	2.1	0	20	8.0	1.5	2.3	.7	20	0	16
JULY 21...	1205	150	1.4	10	0	8.0	1.5	3.3	1.2	21	0	17
AUG. 05...	1150	936	2.2	--	--	6.5	1.0	1.6	.6	15	0	12
SEP. 01...	1015	360	1.6	0	0	7.0	1.3	2.0	.5	18	0	15
21...	1200	268	1.8	30	0	8.0	1.4	2.5	.6	19	0	16

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT. 27...	9.8	1.8	.3	.67	--	.01	.07	1.1	.04	30	29	4
NOV. 25...	10	2.0	.1	.09	--	.00	.02	1.4	.04	31	29	3
DEC. 21...	9.0	2.7	.0	.22	--	.01	.02	1.4	.01	32	30	4
JAN. 21...	16	4.4	.1	.12	--	.02	.03	1.9	.00	33	43	4
FEB. 23...	10	4.7	.0	.10	--	.01	.04	2.0	.10	34	34	18
MAR. 30...	9.0	4.6	.0	.16	--	.01	.05	1.6	.02	--	36	--
APR. 27...	8.0	2.0	.0	.10	--	.00	.02	1.9	.02	27	26	8
MAY 18...	8.5	2.3	.0	.16	--	.02	.09	1.7	.04	--	29	--
JUNE 29...	9.6	4.7	.0	.00	.19	.03	.09	.4	.03	--	30	--
JULY 21...	9.5	5.0	.0	.16	.40	.02	.24	.6	.21	--	41	--
AUG. 05...	9.2	2.5	.0	.41	.65	.00	.05	.8	--	--	32	--
SEP. 01...	8.4	2.5	.0	.38	.66	.01	.11	.8	.03	--	36	--
21...	9.2	3.2	.0	.24	.57	.02	.11	1.0	.03	--	38	--

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01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.											
27...	18	10	50	6.7	9.5	1	11.3	3	--	--	.02
NOV.											
25...	18	10	51	6.8	4.0	6	12.8	2	--	--	.04
DEC.											
21...	22	11	57	7.1	.5	9	14.4	12	--	--	.01
JAN.											
21...	26	16	64	7.0	.0	0	13.3	3	0	60	.03
FEB.											
23...	19	11	62	6.8	.0	3	12.2	0	--	610	.00
MAR.											
30...	22	11	61	7.2	2.0	3	10.7	3	2	22	.02
APR.											
27...	16	8	49	7.1	5.5	2	--	4	1	18	.01
MAY											
18...	20	11	51	7.2	11.5	--	--	3	--	--	.02
JUNE											
29...	26	10	71	7.3	23.0	--	9.6	4	6	14	.01
JULY											
21...	26	9	78	7.1	21.5	--	7.4	11	7	8	.01
AUG.											
05...	20	8	55	7.0	16.0	--	--	6	--	--	--
SEP.											
01...	23	8	63	7.1	16.5	--	8.9	4	40	210	.07
21...	26	10	63	7.2	16.0	--	7.6	0	160	700	.01

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAR.						
30...	10	0	30	5	0	<.5

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.0	10.5	8.5	5.0	4.0	0.0	0.0	0.0	0.0	4.0	1.0
2	10.5	9.0	10.0	8.5	7.0	5.0	0.0	0.0	0.0	0.0	3.0	1.5
3	12.0	10.0	9.5	6.5	5.5	4.0	0.0	0.0	0.0	0.0	3.0	0.0
4	11.0	10.0	9.5	8.5	6.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
5	12.0	8.5	8.5	5.5	3.5	1.0	0.0	0.0	0.0	0.0	0.5	0.0
6	13.0	8.5	5.5	4.5	1.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
7	14.5	10.5	6.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.5
8	14.5	11.5	8.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
9	14.0	11.5	6.0	5.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	14.0	11.5	8.0	5.5	1.5	0.5	0.0	0.0	0.0	0.0	1.0	0.0
11	13.0	12.0	9.5	8.0	1.5	0.5	0.0	0.0	0.0	0.0	1.5	0.5
12	12.0	11.5	10.5	9.5	0.5	0.0	0.0	0.0	0.0	0.0	4.0	0.5
13	12.0	11.0	10.0	9.5	0.5	0.0	0.0	0.0	0.0	0.0	3.5	3.0
14	14.5	11.5	9.5	8.5	0.5	0.5	0.0	0.0	0.5	0.0	7.0	3.0
15	14.5	13.0	9.0	8.0	1.0	0.5	0.0	0.0	0.5	0.0	5.5	4.5
16	14.0	10.0	8.0	5.5	0.5	0.0	0.0	0.0	1.0	0.0	4.5	3.0
17	10.0	6.5	6.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0
18	9.5	6.5	5.5	4.5	0.0	0.0	0.0	0.0	1.0	0.0	4.0	1.0
19	11.0	8.0	7.0	5.5	0.5	0.0	0.0	0.0	1.0	0.0	3.0	0.5
20	9.5	6.0	6.5	5.5	1.0	0.5	0.0	0.0	0.0	0.0	3.0	0.5
21	10.0	9.0	7.0	5.5	0.5	0.5	0.0	0.0	0.0	0.0	3.5	1.5
22	11.5	10.0	5.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.5
23	12.0	11.5	5.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	1.5
24	12.0	11.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
25	11.5	10.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
26	11.0	10.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0
27	11.0	9.0	4.5	2.0	0.0	0.0	0.0	0.0	0.5	0.0	5.5	0.0
28	9.5	8.0	5.5	4.5	0.0	0.0	0.0	0.0	2.0	0.0	4.5	1.0
29	8.0	6.0	6.0	5.5	0.0	0.0	0.0	0.0	---	---	5.0	3.5
30	8.5	6.0	5.5	5.0	0.0	0.0	0.0	0.0	---	---	5.5	3.5
31	9.0	8.5	---	---	0.0	0.0	0.0	0.0	---	---	7.0	2.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	3.5	9.5	5.5	20.5	14.5	27.0	24.0	21.0	18.5	21.5	16.5
2	6.0	5.0	9.0	8.0	18.5	14.5	25.5	22.0	21.0	18.5	18.0	16.0
3	7.0	4.5	8.0	6.5	19.5	14.5	25.0	19.0	20.0	18.5	19.5	16.0
4	7.0	3.5	8.0	6.0	23.0	16.0	25.5	19.5	18.5	16.5	19.5	15.5
5	5.0	3.5	9.5	5.0	22.0	18.0	26.0	20.5	21.0	15.5	18.5	15.5
6	4.5	2.0	9.5	8.0	21.5	16.5	25.5	20.0	22.0	16.5	21.5	16.5
7	6.5	3.0	12.0	6.5	24.0	19.0	26.0	23.0	23.5	18.0	23.0	19.5
8	6.0	2.0	11.5	8.5	25.5	20.5	27.0	20.5	25.0	19.5	22.0	19.5
9	8.0	2.0	9.0	8.0	23.0	19.5	27.0	23.5	26.5	21.0	21.0	18.0
10	6.5	3.0	13.0	8.0	23.5	17.0	25.5	21.0	26.0	22.0	19.0	15.0
11	6.5	1.5	15.0	9.5	23.0	17.0	22.0	18.5	25.5	23.5	15.5	14.5
12	8.0	3.5	14.0	11.5	24.5	19.0	23.5	17.0	24.0	19.5	18.0	14.5
13	8.5	4.5	11.5	9.0	23.0	20.0	22.0	18.0	24.0	18.5	18.5	17.0
14	6.5	3.5	12.0	8.0	20.5	18.0	22.0	19.5	22.0	18.0	20.0	17.0
15	5.5	1.5	11.5	7.0	18.0	16.0	24.0	18.0	20.0	17.0	21.5	18.0
16	4.5	3.5	10.0	9.0	21.0	14.5	23.5	20.5	23.0	16.5	19.5	17.0
17	8.0	3.0	14.5	9.0	23.5	17.0	24.5	20.5	23.5	17.0	17.0	16.0
18	8.5	4.0	16.0	10.0	24.0	19.5	25.5	19.5	23.5	18.0	19.5	17.0
19	10.0	5.0	18.0	13.0	25.0	19.5	22.0	19.0	21.0	18.0	18.0	15.5
20	9.5	6.0	19.5	15.0	25.5	21.0	21.0	18.5	19.5	16.5	16.5	15.0
21	9.5	6.5	18.5	13.5	24.0	21.5	24.5	18.0	18.5	15.0	16.5	15.0
22	8.5	5.0	14.5	11.5	26.0	20.0	26.5	20.5	21.5	16.0	17.0	13.5
23	9.0	4.5	16.0	10.0	26.0	20.0	26.5	21.5	20.0	16.5	15.5	13.5
24	8.0	5.0	15.5	11.0	26.0	22.0	21.5	19.0	19.0	14.0	15.5	11.5
25	6.0	4.5	17.0	14.0	26.0	21.5	20.0	17.0	18.0	14.5	13.5	10.5
26	6.5	5.0	16.0	13.0	27.0	23.0	21.0	16.5	19.0	14.5	10.5	10.0
27	9.0	5.0	13.0	11.5	26.5	18.5	21.0	18.5	16.5	12.0	11.5	10.5
28	8.5	5.5	15.0	11.0	24.0	22.0	20.0	15.0	17.0	13.0	13.0	11.5
29	6.0	5.5	19.0	11.5	26.0	21.0	17.0	15.5	19.0	16.0	16.0	13.0
30	6.5	6.0	18.0	14.5	28.0	20.5	15.5	14.5	21.5	16.5	18.5	14.5
31	---	---	20.5	14.0	---	---	18.5	14.5	22.0	18.5	---	---

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, temperature recorder at gaging station on right bank at Stilesville, 0.5 mile upstream from Cold Spring Creek, 1.4 miles downstream from Cannonsville Dam, and 2 miles northeast of Deposit.

DRAINAGE AREA.--456 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1962 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 21.5°C Aug. 30; minimum, freezing point on many days during December to March.

Period of record:
Water temperatures: Maximum, 30.5°C July 2, 1963; minimum, freezing point on many days during winter periods.

REMARKS.--No temperature records available September 5-15.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 28...	1010	41	1.5	8.0	1.8	2.9	1.0	22	0	18	12
DEC. 07...	1300	--	1.7	9.5	2.4	3.4	.9	28	0	23	12
FEB. 01...	1200	--	2.5	8.0	1.8	2.9	1.0	23	0	19	11
SEP. 16...	1530	106	1.6	8.0	2.0	3.0	.9	22	0	18	8.2

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT. 28...	4.3	.1	--	.14	.20	1.7	--	52	45	8
DEC. 07...	4.7	.1	.29	.02	.00	2.5	.18	50	51	2
FEB. 01...	3.2	.0	.21	.03	.31	2.0	.06	47	44	8
SEP. 16...	4.1	.1	--	--	--	1.3	--	--	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT. 28...	28	10	87	6.8	10.0	2	11.2	--	<.5	<.5
DEC. 07...	34	10	89	7.2	15.0	0	13.8	.02	<.5	--
FEB. 01...	27	8	83	6.9	1.0	3	--	.02	<.5	--
SEP. 16...	28	10	77	6.8	14.5	--	--	--	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT. 28...	0	0	2	0	--	90	2	250	<.5	<.5	--	0
DEC. 07...	10	<10	--	<5	0	44	0	53	<.5	--	.7	<45
FEB. 01...	0	--	--	--	--	--	--	--	<.5	--	--	--

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.5	12.0	10.0	5.5	4.0	1.0	0.5	0.0	0.0	5.5	1.0
2	15.5	15.5	12.0	10.0	6.5	4.0	1.5	1.0	0.0	0.0	3.5	0.5
3	15.5	15.5	11.0	9.0	4.0	2.0	1.5	1.0	0.0	0.0	3.0	0.5
4	15.5	15.5	10.5	10.0	4.5	1.5	1.5	1.0	0.0	0.0	0.5	0.0
5	15.5	14.5	10.0	10.0	1.5	0.0	1.5	1.0	0.0	0.0	0.0	0.0
6	16.0	15.0	10.0	9.5	1.5	0.5	1.0	0.0	0.5	0.0	0.5	0.0
7	15.5	15.0	10.0	9.0	0.5	0.5	0.5	0.0	3.5	0.5	2.0	0.5
8	15.0	14.5	10.0	9.5	0.5	0.0	0.0	0.0	0.5	0.5	1.0	0.0
9	15.0	14.0	10.0	9.5	2.0	0.5	0.0	0.0	0.5	0.5	0.0	0.0
10	14.5	14.0	9.5	9.5	2.0	2.0	0.0	0.0	0.5	0.5	1.0	0.0
11	15.0	14.5	9.5	9.5	2.0	1.5	1.0	0.0	1.0	0.5	1.5	0.5
12	14.5	14.0	9.5	9.5	1.5	1.0	1.0	0.0	3.0	1.0	4.5	0.0
13	14.5	14.5	9.5	9.5	1.5	1.0	0.0	0.0	3.0	3.0	2.0	1.0
14	15.0	14.5	9.5	9.0	1.5	1.5	0.0	0.0	3.0	1.5	7.0	1.0
15	14.5	14.5	9.0	8.5	2.0	1.5	0.0	0.0	1.5	1.0	4.5	3.0
16	14.5	10.5	8.5	7.0	1.5	0.5	0.0	0.0	3.0	1.5	3.0	1.5
17	10.5	9.0	7.0	6.5	0.5	0.0	0.0	0.0	2.0	1.0	3.0	1.0
18	13.0	9.5	7.0	6.5	1.5	0.0	0.0	0.0	6.0	0.5	4.5	0.0
19	14.0	10.5	9.0	7.0	2.0	1.0	0.0	0.0	4.5	2.0	1.5	0.0
20	13.5	9.5	8.0	7.0	2.0	1.0	0.0	0.0	4.5	3.5	3.5	0.0
21	12.0	11.0	7.0	6.5	1.0	0.5	0.0	0.0	3.5	3.0	3.5	0.5
22	12.0	12.0	6.5	6.0	1.0	0.5	0.0	0.0	3.0	2.0	0.5	0.0
23	12.0	12.0	6.5	4.5	1.0	0.5	0.0	0.0	3.0	3.0	0.5	0.0
24	12.0	11.5	4.5	4.0	0.5	0.0	0.0	0.0	3.0	1.5	0.0	0.0
25	13.0	10.5	5.0	4.0	1.0	0.5	0.5	0.0	4.0	2.0	0.5	0.0
26	12.0	11.0	4.5	4.5	1.0	0.5	0.5	0.0	3.5	1.0	1.5	0.5
27	11.0	9.5	6.0	5.5	0.5	0.5	0.0	0.0	6.0	3.5	3.0	1.0
28	11.0	9.0	6.0	6.0	0.5	0.5	0.0	0.0	5.5	1.5	1.5	0.5
29	10.5	9.0	6.0	5.5	0.5	0.0	0.0	0.0	---	---	1.5	1.0
30	10.5	9.5	5.5	5.5	0.5	0.0	0.0	0.0	---	---	3.0	1.0
31	10.5	10.0	---	---	---	---	0.0	0.0	---	---	5.0	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	1.0	4.0	3.5	16.5	13.5	9.0	8.0	10.5	8.0	21.0	13.0
2	3.5	3.0	4.0	4.0	15.0	14.0	8.5	8.0	11.0	8.0	15.5	13.5
3	3.0	1.5	4.0	3.5	15.5	13.5	8.5	8.0	11.0	9.5	15.5	14.0
4	2.0	1.5	4.0	3.5	17.0	12.0	8.5	8.0	10.0	9.0	14.5	14.0
5	1.5	1.5	4.5	3.5	17.0	15.5	9.0	8.0	16.5	8.5	---	---
6	1.5	1.5	4.0	3.5	18.5	10.0	8.5	8.0	16.5	8.5	---	---
7	2.0	1.5	5.0	3.5	18.5	10.0	8.5	7.0	18.0	8.5	---	---
8	2.0	2.0	5.0	4.0	18.0	9.5	8.0	7.0	18.5	9.5	---	---
9	3.0	2.0	5.5	5.0	16.5	10.0	8.0	7.0	19.0	10.0	---	---
10	2.0	2.0	7.0	5.0	18.0	8.0	8.0	7.0	18.5	10.0	---	---
11	2.0	2.0	8.5	6.5	11.5	7.0	7.0	7.0	14.0	10.0	---	---
12	2.0	2.0	8.0	7.0	9.0	7.0	9.0	7.0	11.5	9.5	---	---
13	3.0	2.0	7.0	6.0	8.0	7.0	9.0	7.0	10.5	9.5	---	---
14	2.0	2.0	7.0	6.0	8.0	6.5	8.0	6.0	10.5	9.5	---	---
15	2.0	2.0	7.0	6.0	7.0	6.5	7.0	5.0	10.0	9.5	---	---
16	2.0	2.0	8.0	6.0	9.0	7.0	6.5	6.0	12.0	9.5	14.5	14.0
17	2.0	2.0	9.0	6.5	9.5	8.0	6.0	5.5	11.0	10.0	14.5	12.0
18	2.0	2.0	10.5	8.0	8.5	8.0	6.5	5.5	11.0	10.0	14.0	13.0
19	2.0	2.0	11.5	9.5	9.5	8.0	5.5	5.0	11.0	10.0	14.0	13.5
20	2.0	2.0	14.5	10.0	9.0	7.0	5.0	4.5	11.0	10.0	14.0	13.5
21	2.0	2.0	14.0	10.0	8.5	8.0	5.5	4.5	11.5	10.5	14.0	11.5
22	2.0	2.0	14.0	13.5	9.0	8.0	5.5	4.5	12.0	11.0	15.0	11.0
23	3.0	2.0	13.5	12.0	8.5	8.0	5.0	4.5	12.0	11.0	14.0	13.5
24	3.0	2.0	14.0	11.5	8.0	8.0	6.0	4.5	13.0	10.5	15.5	13.5
25	3.0	2.0	12.0	9.0	8.5	8.0	5.5	5.0	13.5	11.0	14.5	11.5
26	3.0	3.0	10.5	8.5	8.0	7.0	7.0	5.5	14.0	12.0	14.5	14.0
27	3.0	2.0	10.5	8.5	8.5	7.0	7.0	6.5	14.0	13.0	14.0	13.0
28	3.5	3.0	11.5	10.0	8.5	7.0	8.5	7.0	15.5	13.5	14.0	13.0
29	3.5	3.5	14.0	11.0	9.0	8.5	8.5	8.0	19.0	13.5	16.0	14.0
30	3.5	3.5	14.5	12.0	9.0	8.0	9.0	8.0	21.5	13.5	16.5	14.5
31	---	---	16.0	14.0	---	---	10.5	8.5	20.5	14.5	---	---

01425665 OQUAGA CREEK AT ARCTIC, N.Y.

LOCATION.--Lat 42°11'05", long 75°25'27", Broome County, at bridge on North Sanford Road, 0.3 mile upstream from small tributary, 0.5 mile west of Arctic, 1.3 miles upstream from gaging station near North Sanford (01425675), and 2.6 miles northeast of North Sanford.

PERIOD OF RECORD.--Chemical analyses: March to September 1971.

CHEMICAL ANALYSES, MARCH TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAR.									
31...	1235	E1.3	2.6	4.5	1.0	1.6	.5	10	0
APR.									
16...	0945	4.1	2.1	3.5	.8	1.1	.4	8	0
MAY									
26...	1400	1.5	2.8	5.0	1.2	2.3	.6	14	0
JULY									
01...	1100	.06	3.9	6.0	1.4	2.0	.5	21	0
12...	1550	E.01	4.0	6.0	1.4	2.1	.5	18	0
29...	1100	E.01	3.8	6.9	1.6	2.0	.5	25	0
SEP.									
16...	1050	E.01	3.6	6.5	1.7	2.4	.5	24	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
MAR.									
31...	8	8.9	1.5	.1	.01	.17	.7	40	26
APR.									
16...	7	8.1	.8	.0	.00	.00	.1	23	20
MAY									
26...	11	8.2	2.5	.1	.00	.00	.1	--	30
JULY									
01...	17	6.6	1.3	.0	.00	.00	.4	--	32
12...	15	7.5	1.6	.0	.03	.06	.0	--	32
29...	21	7.8	1.0	.1	.00	.04	.0	--	36
SEP.									
16...	20	6.1	1.4	.1	--	--	.0	--	34

DATE	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
MAR.									
31...	16	15	7	45	6.7	3.0	7	10.2	--
APR.									
16...	9	12	5	37	6.7	4.0	3	--	.02
MAY									
26...	--	17	6	54	6.8	11.0	--	--	--
JULY									
01...	--	21	4	54	7.2	--	--	--	--
12...	--	21	6	56	6.9	17.5	--	--	--
29...	--	24	3	60	7.0	16.0	--	--	--
SEP.									
16...	--	23	4	60	7.0	16.0	--	--	--

01425670 OQUAGA CREEK TRIBUTARY AT ARCTIC, N.Y.

LOCATION.--Lat 42°10'56", long 75°25'16", Broome County, 0.2 mile upstream from mouth, 0.4 mile southwest of Arctic, 0.4 mile downstream from bridge on East Afton Road and 2.5 miles northwest of North Sanford.

PERIOD OF RECORD.--Chemical analyses: March to September 1971.

CHEMICAL ANALYSES, MARCH TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAR.									
31...	1430	E3.0	3.1	5.0	1.2	2.9	.5	11	0
APR.									
16...	1110	10	2.6	3.5	.9	1.5	.3	8	0
MAY									
26...	1230	1.5	1.9	5.0	1.0	1.5	.4	14	0
JULY									
01...	1215	.22	4.6	12	3.5	4.2	.6	51	0
12...	1610	.14	4.9	12	2.7	4.5	.7	38	0
SEP.									
16...	1150	.12	4.6	12	2.3	4.9	.8	45	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
MAR.									
31...	9	9.1	4.5	.1	.01	.09	.8	45	32
APR.									
16...	7	8.0	1.8	.0	.00	.00	.5	30	23
MAY									
26...	11	8.0	1.0	.0	.00	.03	.0	--	26
JULY									
01...	42	8.0	3.1	.1	.07	.00	.3	--	62
12...	31	8.5	6.0	.0	.03	.06	.8	--	59
SEP.									
16...	37	8.4	5.7	.1	--	--	.8	--	--

DATE	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
MAR.									
31...	12	17	8	58	6.9	4.5	2	10.0	--
APR.									
16...	8	12	6	42	6.7	3.0	3	--	.01
MAY									
26...	--	17	5	44	6.8	12.0	--	--	--
JULY									
01...	--	44	3	108	7.5	19.0	--	--	--
12...	--	41	10	100	7.5	15.0	--	--	--
SEP.									
16...	--	39	3	113	7.2	24.0	--	--	--

01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.

LOCATION.--Lat 42°10'28", long 75°26'25", Broome County, temperature recorder at gaging station on left bank 20 ft downstream from culvert on North Sanford Road, 0.2 mile upstream from outlet of Stilson Pond, 1.5 miles north of North Sanford, and 4.1 miles upstream from Dry Brook.

DRAINAGE AREA.--6.71 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 21.0°C June 30, July 1; minimum, freezing point on many days during winter period.

REMARKS: No water temperature records Dec. 3 to Jan. 11, Apr. 29 to May 20, July 16-27.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
MAR.									
31...	1130	E5.5	3.1	5.0	1.3	2.4	.5	13	0
APR.									
16...	0950	20	2.9	4.2	1.0	1.4	.4	8	0
MAY									
20...	1630	E5.0	2.9	6.0	1.4	2.0	.6	16	0
26...	1040	E7.1	2.5	6.0	1.3	2.0	.6	16	0
JULY									
01...	1030	.51	4.6	10	2.8	3.1	.7	38	0
12...	1530	.36	4.3	11	2.9	4.1	.7	42	0
29...	1000	.30	3.7	11	3.2	3.1	.7	46	0
SEP.									
16...	1035	.18	4.7	12	3.3	3.0	.8	46	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
MAR.									
31...	11	9.3	3.2	.0	.01	.06	.5	50	31
APR.									
16...	7	8.7	1.4	.0	.00	.00	.5	26	24
MAY									
20...	13	9.3	1.7	.0	.01	.01	.3	34	31
26...	13	8.0	2.0	.1	.00	.06	.2	--	31
JULY									
01...	31	9.0	2.3	.0	.00	.00	.8	--	52
12...	34	9.6	2.8	.0	.03	.06	.8	--	57
29...	38	9.2	2.5	.1	.00	.00	.4	--	57
SEP.									
16...	38	7.5	2.8	.1	--	--	.4	--	--

DATE	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDU-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
MAR.									
31...	22	17	7	55	7.0	.5	3	11.4	--
APR.									
16...	8	14	8	42	6.8	2.0	5	--	.02
MAY									
20...	6	20	8	56	7.3	14.5	3	--	--
26...	--	20	7	53	6.8	11.0	--	--	--
JULY									
01...	--	36	5	90	7.7	20.0	--	--	--
12...	--	39	5	97	7.6	16.5	--	--	--
29...	--	41	3	99	7.6	16.0	--	--	--
SEP.									
16...	--	44	6	108	7.5	16.0	--	--	--

01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	11.0	9.5	8.0	4.0	4.0	---	---	0.0	0.0	0.0	0.0
2	11.0	10.5	9.5	9.0	4.0	4.0	---	---	0.0	0.0	0.0	0.0
3	11.5	10.5	9.0	8.0	---	---	---	---	0.0	0.0	0.0	0.0
4	11.5	10.5	9.0	8.5	---	---	---	---	0.0	0.0	0.0	0.0
5	10.5	9.0	9.0	8.5	---	---	---	---	0.0	0.0	0.0	0.0
6	11.5	9.5	8.5	8.5	---	---	---	---	0.0	0.0	0.0	0.0
7	12.0	11.5	8.5	8.5	---	---	---	---	0.0	0.0	0.0	0.0
8	12.0	11.5	8.5	8.0	---	---	---	---	0.0	0.0	0.0	0.0
9	12.0	11.5	8.0	7.0	---	---	---	---	0.0	0.0	0.0	0.0
10	13.0	12.0	8.0	7.0	---	---	---	---	0.0	0.0	0.0	0.0
11	13.0	13.0	9.0	8.0	---	---	---	---	0.0	0.0	0.0	0.0
12	13.0	13.0	9.0	8.5	---	---	0.0	0.0	0.0	0.0	0.0	0.0
13	13.5	13.0	8.5	8.5	---	---	0.0	0.0	0.0	0.0	0.0	0.0
14	13.5	13.0	8.5	8.5	---	---	0.0	0.0	0.0	0.0	1.0	0.0
15	13.5	13.0	8.5	8.5	---	---	0.0	0.0	0.0	0.0	1.0	0.5
16	13.0	10.0	8.5	6.5	---	---	0.0	0.0	0.0	0.0	0.5	0.5
17	10.0	9.0	6.5	6.0	---	---	0.0	0.0	0.0	0.0	0.5	0.0
18	10.0	9.0	6.0	6.0	---	---	0.0	0.0	0.0	0.0	1.0	0.5
19	10.0	9.5	6.0	6.0	---	---	0.0	0.0	0.0	0.0	1.0	0.5
20	9.5	8.5	6.0	5.5	---	---	0.0	0.0	0.0	0.0	0.5	0.5
21	9.5	9.0	5.5	5.5	---	---	0.0	0.0	0.0	0.0	0.5	0.5
22	10.5	9.5	5.5	5.5	---	---	0.0	0.0	0.0	0.0	1.0	0.5
23	10.5	10.5	5.5	5.5	---	---	0.0	0.0	0.0	0.0	0.5	0.5
24	10.5	9.5	5.5	5.0	---	---	0.0	0.0	0.0	0.0	0.5	0.5
25	9.5	9.0	5.0	5.0	---	---	0.0	0.0	0.0	0.0	0.5	0.5
26	10.0	9.5	5.0	5.0	---	---	0.0	0.0	0.0	0.0	0.5	0.5
27	10.0	9.0	5.0	4.5	---	---	0.0	0.0	0.0	0.0	1.0	0.5
28	9.0	8.5	4.5	4.5	---	---	0.0	0.0	0.0	0.0	0.5	0.5
29	8.5	8.0	4.5	4.5	---	---	0.0	0.0	---	---	0.5	0.5
30	8.0	7.0	4.5	4.0	---	---	0.0	0.0	---	---	0.5	0.5
31	8.0	7.0	---	---	---	---	0.0	0.0	---	---	1.5	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	1.0	---	---	14.0	11.0	21.0	20.0	17.0	16.5	14.5	13.0
2	1.0	0.5	---	---	13.5	11.0	20.5	18.5	18.0	16.5	14.5	13.5
3	1.5	1.0	---	---	14.5	11.5	18.5	15.5	18.0	17.0	16.0	14.5
4	4.0	1.0	---	---	16.0	13.0	19.0	15.0	17.0	15.5	16.5	15.5
5	1.5	1.5	---	---	16.0	14.0	19.0	16.0	15.5	14.5	17.0	16.0
6	1.5	1.5	---	---	15.5	13.5	18.0	16.0	16.0	14.0	18.0	16.0
7	3.0	1.5	---	---	17.0	15.0	19.0	15.5	16.5	14.5	18.5	17.0
8	2.0	1.5	---	---	18.0	16.5	20.0	16.5	18.0	15.5	19.5	18.0
9	3.0	1.0	---	---	17.0	15.0	20.0	18.0	18.5	15.5	18.5	17.0
10	2.0	1.0	---	---	15.0	13.0	18.0	15.5	18.5	16.0	17.0	15.5
11	3.5	1.0	---	---	15.5	11.5	16.0	15.0	19.5	18.0	18.0	17.0
12	4.5	1.5	---	---	16.5	14.5	16.5	13.5	18.0	15.0	18.5	18.0
13	4.5	3.0	---	---	16.5	15.5	15.5	12.0	16.0	13.5	18.0	17.0
14	3.5	1.5	---	---	16.0	15.0	15.5	15.0	17.0	14.0	17.0	16.5
15	3.0	1.5	---	---	15.0	14.5	16.5	13.5	15.5	15.0	18.0	16.5
16	1.5	1.5	---	---	15.0	14.0	---	---	16.5	15.0	17.0	16.0
17	4.5	1.5	---	---	16.0	14.0	---	---	16.0	13.0	16.0	15.5
18	5.0	2.0	---	---	16.5	15.0	---	---	16.5	13.5	15.5	15.0
19	6.0	3.0	---	---	17.0	15.5	---	---	16.5	14.0	15.0	14.5
20	5.0	3.5	---	---	18.5	16.5	---	---	16.5	15.5	15.5	14.5
21	5.5	4.0	15.0	12.0	18.5	18.0	---	---	17.0	15.5	15.5	13.5
22	4.0	3.0	12.0	10.5	18.5	16.5	---	---	17.0	15.0	13.5	11.5
23	4.5	2.0	13.0	9.0	17.0	15.0	---	---	16.5	14.5	12.0	11.5
24	3.5	2.0	12.0	8.5	19.0	16.5	---	---	14.5	12.0	12.0	11.0
25	2.0	2.0	13.5	11.0	19.0	16.0	---	---	13.5	11.0	11.0	10.0
26	2.0	2.0	13.0	10.5	19.0	18.0	---	---	16.0	13.5	10.5	10.5
27	3.5	2.0	10.5	10.5	19.0	15.5	---	---	15.5	15.0	11.0	10.5
28	3.0	1.5	13.5	10.0	18.5	18.0	---	---	15.5	15.0	12.0	11.0
29	---	---	15.0	10.0	19.5	17.0	16.5	16.0	15.5	15.0	13.5	12.0
30	---	---	14.5	11.5	21.0	19.0	16.5	16.5	16.0	15.0	13.5	13.0
31	---	---	15.0	11.5	---	---	17.0	16.5	16.0	14.5	---	---

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.

LOCATION.--Lat 42°00'10", long 75°23'15", Orange County, temperature recorder at gaging station at highway bridge in Hale Eddy, 9 miles upstream from confluence of East and West Branches at Hancock.

DRAINAGE AREA.--593 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, May 1970 to September 1971.
Water temperatures: October 1967 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 29.0°C June 8.

Period of record:
Water temperatures: Maximum, 30.0°C June 28, 1969.

REMARKS.--No water temperature record October 27 to March 22.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR, OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
27...	1230	279	2.2	10	10	7.6	1.7	2.8	.9	20	0	16
NOV.												
25...	1230	339	3.6	50	0	7.5	1.9	3.6	.8	14	0	11
DEC.												
21...	1540	275	3.4	50	0	7.6	1.9	3.9	.7	17	0	14
JAN.												
21...	1115	510	3.8	50	0	10	2.0	3.2	.8	20	0	16
FEB.												
22...	1030	1200	3.4	40	0	6.5	2.2	2.6	.7	13	0	11
MAR.												
30...	1410	310	3.0	40	0	8.5	2.2	4.0	1.1	17	0	14
APR.												
27...	1045	1470	2.7	30	70	7.0	1.8	2.8	1.0	16	0	13
MAY												
25...	1200	643	.8	--	--	7.0	1.7	2.6	.9	17	0	14
JUNE												
29...	0940	1240	1.9	0	0	7.0	1.7	2.7	1.1	17	0	14
JULY												
21...	1015	1360	2.2	20	0	7.5	1.8	2.9	.8	16	0	13
AUG.												
31...	1030	55	2.1	0	20	9.0	2.7	4.5	1.2	27	0	22
SEP.												
21...	1015	98	2.4	20	0	9.0	3.3	4.6	1.3	24	0	20

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT.												
27...	12	5.5	.0	.23	--	.00	.09	1.2	.06	50	44	16
NOV.												
25...	13	4.8	.2	.15	--	.02	.03	2.3	.04	60	45	7
DEC.												
21...	11	7.0	.1	.30	--	.02	.00	2.1	.04	40	43	2
JAN.												
21...	12	7.2	.0	.06	--	.02	.05	2.9	.02	38	51	3
FEB.												
22...	11	3.8	.0	.28	--	.02	.12	2.3	.09	--	39	--
MAR.												
30...	7.5	12	.0	.38	--	.02	.10	3.5	.13	74	50	33
APR.												
27...	9.8	4.3	.0	.50	--	.02	.17	3.2	.12	48	41	9
MAY												
25...	10	4.2	.0	.46	--	.09	.21	1.6	.12	--	38	--
JUNE												
29...	10	4.6	.0	.40	1.1	.04	.14	2.9	.09	--	41	--
JULY												
21...	12	3.8	.0	.28	1.5	.10	.12	4.9	.12	--	44	--
AUG.												
31...	10	7.6	.0	.48	1.3	.13	.28	2.6	.12	--	54	--
SEP.												
21...	10	7.1	.2	.45	1.7	.68	.17	4.3	.15	--	56	--

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.											
27...	26	10	77	7.0	10.0	2	11.4	6	--	--	.01
NOV.											
25...	26	15	83	6.9	.0	5	13.6	1	--	--	.02
DEC.											
21...	27	13	100	7.0	.5	4	--	36	--	--	.01
JAN.											
21...	33	17	85	6.9	.0	2	11.0	0	280	4500	.02
FEB.											
22...	22	11	66	6.9	2.0	5	12.4	7	100	1500	.02
MAR.											
30...	30	16	90	7.0	3.5	8	11.2	4	2	120	.02
APR.											
27...	24	12	76	7.2	4.0	3	--	6	2	22	.02
MAY											
25...	24	11	71	7.0	12.5	--	11.8	6	33	160	.03
JUNE											
29...	24	11	72	7.2	7.0	--	9.4	4	17	150	.02
JULY											
21...	26	13	72	7.2	8.0	--	11.3	6	53	110	.04
AUG.											
31...	34	11	102	6.9	20.0	--	9.1	6	--	--	.02
SEP.											
21...	36	16	98	6.8	15.5	--	9.7	4	330	1900	.03

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAR.						
30...	0	0	40	3	0	<.5

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01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.0	---	---	---	---	---	---	---	---	---	---
2	16.0	14.0	---	---	---	---	---	---	---	---	---	---
3	16.5	15.0	---	---	---	---	---	---	---	---	---	---
4	15.5	13.5	---	---	---	---	---	---	---	---	---	---
5	16.5	13.0	---	---	---	---	---	---	---	---	---	---
6	16.5	13.0	---	---	---	---	---	---	---	---	---	---
7	16.5	13.5	---	---	---	---	---	---	---	---	---	---
8	16.5	13.5	---	---	---	---	---	---	---	---	---	---
9	15.5	13.5	---	---	---	---	---	---	---	---	---	---
10	15.5	13.0	---	---	---	---	---	---	---	---	---	---
11	14.5	13.5	---	---	---	---	---	---	---	---	---	---
12	14.5	13.5	---	---	---	---	---	---	---	---	---	---
13	15.5	13.5	---	---	---	---	---	---	---	---	---	---
14	16.0	14.0	---	---	---	---	---	---	---	---	---	---
15	15.0	13.0	---	---	---	---	---	---	---	---	---	---
16	13.0	9.0	---	---	---	---	---	---	---	---	---	---
17	9.0	6.0	---	---	---	---	---	---	---	---	---	---
18	9.5	5.5	---	---	---	---	---	---	---	---	---	---
19	11.0	7.0	---	---	---	---	---	---	---	---	---	---
20	10.0	5.0	---	---	---	---	---	---	---	---	---	---
21	10.0	8.0	---	---	---	---	---	---	---	---	---	---
22	12.0	10.0	---	---	---	---	---	---	---	---	---	---
23	12.0	11.0	---	---	---	---	---	---	---	---	4.5	0.0
24	12.0	10.0	---	---	---	---	---	---	---	---	2.0	0.0
25	11.5	9.0	---	---	---	---	---	---	---	---	4.0	0.0
26	11.5	10.5	---	---	---	---	---	---	---	---	4.5	0.0
27	---	---	---	---	---	---	---	---	---	---	6.5	0.0
28	---	---	---	---	---	---	---	---	---	---	5.0	0.0
29	---	---	---	---	---	---	---	---	---	---	4.5	2.0
30	---	---	---	---	---	---	---	---	---	---	4.5	1.5
31	---	---	---	---	---	---	---	---	---	---	6.5	0.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	1.5	8.0	4.0	21.5	14.0	12.0	7.0	20.0	14.5	25.0	16.5
2	5.0	3.0	6.5	5.0	18.0	14.0	10.5	7.0	15.5	11.0	20.0	16.5
3	6.5	1.5	5.5	4.5	22.0	15.0	11.0	6.0	19.5	15.5	22.0	15.0
4	6.0	1.0	8.0	4.5	24.5	16.5	11.5	6.0	19.0	17.0	17.0	13.0
5	3.5	1.0	9.5	4.0	24.5	18.0	12.0	6.0	24.5	15.5	16.0	13.0
6	3.5	1.0	6.5	5.5	25.5	17.0	10.5	6.0	24.5	15.5	19.0	13.0
7	5.0	1.5	11.5	4.5	28.0	19.5	11.5	7.0	26.0	16.5	21.5	14.0
8	4.5	0.5	8.0	6.0	29.0	21.0	12.0	7.0	28.0	19.0	19.0	14.0
9	6.0	1.0	8.0	6.5	25.5	19.5	11.0	7.0	28.5	20.5	19.0	14.0
10	4.0	1.5	11.5	6.5	26.5	16.0	10.5	7.0	28.0	21.0	18.0	14.0
11	5.5	1.5	14.5	7.0	26.0	13.5	8.5	7.0	25.5	17.0	19.0	14.0
12	6.0	1.5	11.0	9.0	17.0	8.5	10.5	6.5	22.0	14.0	18.5	14.0
13	6.5	3.5	10.5	8.0	13.0	8.5	11.0	6.5	19.5	10.0	18.5	15.5
14	5.0	2.0	13.5	6.5	11.5	8.0	9.5	6.5	15.0	9.0	21.0	16.0
15	4.5	2.0	11.5	6.5	10.0	7.0	10.5	5.5	13.0	9.0	20.0	15.0
16	4.0	3.0	11.0	8.0	13.0	6.5	9.5	6.5	16.5	10.0	17.0	14.5
17	6.0	3.0	13.5	8.0	14.0	6.0	10.0	6.5	16.0	9.0	16.0	14.5
18	6.5	3.0	16.5	9.0	11.0	6.5	11.0	6.5	16.5	10.0	19.0	14.5
19	7.0	3.5	18.5	10.5	10.5	5.5	8.5	7.0	15.0	10.0	14.5	13.5
20	7.0	3.5	19.5	11.5	11.5	6.0	11.0	7.0	13.5	10.5	16.0	14.0
21	7.0	4.5	16.5	12.0	10.0	6.0	11.0	8.0	14.5	11.0	17.0	15.0
22	4.5	4.0	15.0	13.0	12.0	5.5	11.0	8.0	18.0	11.0	20.0	12.0
23	7.0	3.5	17.0	11.0	11.0	5.5	11.5	8.0	16.0	11.5	16.0	13.0
24	6.5	3.5	16.5	10.5	10.0	6.0	11.5	8.0	16.0	10.0	16.5	12.0
25	4.5	3.5	17.0	11.5	10.0	5.5	11.5	8.5	15.5	10.0	15.5	10.5
26	5.5	4.0	14.5	10.0	11.0	6.0	13.5	9.0	18.0	11.5	14.5	13.5
27	6.5	4.0	12.0	10.0	11.0	6.0	13.0	9.5	14.0	11.5	14.0	13.0
28	4.5	4.0	16.0	10.5	9.0	6.0	13.5	8.5	19.0	14.0	15.5	13.5
29	5.0	4.5	19.5	11.0	11.0	6.5	11.5	9.5	21.5	16.5	19.5	15.5
30	5.5	4.5	17.0	14.0	12.0	6.5	13.0	9.5	25.5	17.0	20.0	16.0
31	---	---	21.5	14.5	---	---	20.5	13.0	25.0	19.0	---	---

01427207 DELAWARE RIVER AT LORDVILLE, N.Y.

LOCATION.--Lat 41°52'05", long 75°12'50", Delaware County, temperature recorder at Lordville-Equinunk interstate bridge at Lordville, 50 ft downstream from Humphries Brook and 6.5 miles southeast of Hancock.

DRAINAGE AREA.--1,587 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1967 to August 1971 (discontinued).

EXTREMES, 1970-71.--Water temperatures: Minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum (1967-70) 28.0°C June 13, 1969; minimum, freezing point on many days during winter periods.

REMARKS.--Inflow from Humphries Brook is known to effect the recorded water temperature at undetermined times. Clock stopped May 14-18, range in temperature 11.0°C to 13.5°C.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

TEMPERATURE (°C) OF WATER, OCTOBER 1970 TO AUGUST 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	11.0	10.0	8.0	5.0	3.5	0.0	0.0	0.0	0.0	0.5	0.0
2	13.0	11.5	10.0	8.5	6.5	4.5	0.0	0.0	0.0	0.0	0.5	0.0
3	14.0	13.0	10.5	8.5	5.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
4	13.5	12.0	10.5	9.0	5.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
5	13.5	11.0	10.0	8.0	3.5	1.5	0.0	0.0	0.0	0.0	0.5	0.0
6	14.0	11.5	8.0	6.5	1.5	0.0	0.0	0.0	0.5	0.0	0.5	0.0
7	15.5	14.0	9.0	6.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0
8	16.5	15.0	9.5	7.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0
9	16.5	15.5	8.0	7.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0
10	16.0	15.0	9.0	8.0	1.5	1.0	0.0	0.0	0.0	0.0	1.0	0.0
11	16.0	15.0	10.5	9.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0
12	15.5	15.0	10.5	10.0	0.5	0.0	0.0	0.0	0.5	0.0	1.5	0.0
13	15.5	14.5	10.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
14	16.0	15.0	10.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.5
15	16.0	14.5	8.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.5
16	14.5	11.5	7.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0
17	11.5	8.5	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0
18	9.5	8.0	5.5	5.5	0.0	0.0	0.0	0.0	0.5	0.0	3.5	1.0
19	11.0	8.5	7.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
20	10.5	8.0	6.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5
21	10.5	10.0	7.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1.0
22	12.0	10.5	5.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1.0
23	13.0	12.0	5.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.0
24	13.5	12.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0
25	13.0	11.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
26	13.0	11.5	1.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	3.5	0.0
27	12.0	10.0	3.0	1.5	0.0	0.0	0.0	0.0	0.5	0.0	4.5	0.5
28	10.0	8.0	4.5	3.0	0.0	0.0	0.0	0.0	0.5	0.0	5.0	2.0
29	8.5	6.5	4.5	4.5	0.0	0.0	0.0	0.0	---	---	5.0	3.5
30	8.0	6.5	5.0	4.5	0.0	0.0	0.0	0.0	---	---	4.5	3.5
31	8.5	7.0	---	---	0.0	0.0	0.0	0.0	---	---	5.5	1.5

	APRIL		MAY		JUNE		JULY		AUGUST	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	3.0	7.0	5.0	20.0	16.5	17.0	15.0	20.5	18.5
2	5.0	4.0	7.0	6.5	18.0	16.0	16.0	14.5	21.5	20.0
3	6.0	3.5	6.5	5.5	19.0	15.5	15.0	12.0	21.0	19.0
4	5.5	3.5	7.0	5.0	21.5	17.0	14.5	12.0	---	---
5	4.5	3.0	8.0	5.0	22.0	19.5	15.0	12.0	---	---
6	3.5	2.0	8.0	7.0	21.5	19.0	15.5	13.5	---	---
7	5.5	3.0	10.5	6.0	24.0	19.5	16.0	13.0	---	---
8	4.5	2.0	10.0	8.0	25.5	22.0	16.0	13.5	---	---
9	6.0	2.0	8.0	7.0	23.5	21.0	15.5	13.5	---	---
10	5.5	2.0	11.0	7.0	23.5	19.5	14.0	11.5	---	---
11	5.5	1.5	14.0	9.5	23.5	19.0	13.5	10.0	---	---
12	6.5	3.5	13.5	12.0	24.5	20.5	14.0	9.0	---	---
13	8.0	5.0	12.0	9.5	22.0	19.0	14.0	11.0	---	---
14	7.0	3.5	---	---	19.0	15.5	14.0	12.0	---	---
15	5.0	2.0	---	---	15.5	14.0	14.0	11.0	---	---
16	4.0	3.0	---	---	16.5	13.0	13.5	11.5	---	---
17	6.5	3.0	---	---	16.5	14.5	13.0	11.0	---	---
18	7.0	4.0	---	---	16.5	15.0	15.0	11.0	---	---
19	8.5	5.0	17.0	13.5	16.5	13.5	14.5	11.0	---	---
20	9.0	6.0	18.5	15.5	16.5	14.0	14.0	11.5	---	---
21	9.0	7.0	18.0	15.0	17.0	15.0	15.5	12.0	---	---
22	8.0	5.0	15.0	13.5	19.0	14.0	15.0	12.0	---	---
23	8.0	4.5	15.5	11.5	19.0	15.5	15.0	12.0	---	---
24	7.0	5.5	15.5	13.0	17.0	15.0	15.5	14.0	---	---
25	5.5	4.5	17.0	15.0	16.5	14.0	15.5	14.0	---	---
26	5.5	4.5	16.5	14.0	15.5	13.5	17.0	14.5	---	---
27	7.0	5.0	14.0	13.5	15.5	13.5	17.0	15.5	---	---
28	6.0	5.0	15.0	12.0	15.5	13.5	16.5	14.0	---	---
29	5.0	4.5	18.0	13.5	16.0	13.0	16.0	14.5	---	---
30	5.5	4.5	17.0	16.0	16.0	14.5	15.0	14.5	---	---
31	---	---	20.0	16.0	---	---	19.5	14.5	---	---

01427405 DELAWARE RIVER NEAR CALLICOON, N.Y.

LOCATION.--Lat 41°46'14", long 75°05'03", Sullivan County, temperature recorder at gaging station 500 ft downstream from Hollister Creek, 1.3 miles northwest of Callicoon and 1.4 miles upstream from Callicoon Creek.

DRAINAGE AREA.--1,706 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 28°C Aug. 9, 10; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 30.0°C June 28, 1969; minimum, freezing point on many days during winter periods.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MAR. 01...	1145	20000	2.5	6.0	.9	2.1	.6	11
AUG. 19...	1100	1080	1.4	7.2	1.8	2.4	.9	21

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
MAR. 01...	0	9	9.6	3.7	.0	.02	.05	1.6	44
AUG. 19...	0	17	9.3	3.8	.0	--	--	1.3	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAR. 01...	32	1	18	10	57	6.7	.0	6
AUG. 19...	38	--	25	8	70	6.9	20.0	--

01427405 DELAWARE RIVER NEAR CALLICOON, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.0	10.0	7.0	5.5	4.0	0.0	0.0	0.0	0.0	0.5	0.0
2	13.5	11.0	10.0	8.0	7.0	4.5	0.0	0.0	0.0	0.0	0.5	0.0
3	14.0	12.0	11.0	7.0	5.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
4	14.5	12.0	10.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
5	14.5	11.0	9.0	6.5	3.0	1.5	0.0	0.0	0.0	0.0	1.0	0.0
6	15.0	11.0	8.5	6.0	1.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0
7	16.0	13.0	8.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0
8	18.0	14.5	9.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
9	17.0	15.0	7.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
10	17.0	15.0	8.0	6.5	0.5	0.0	0.0	0.0	0.0	0.0	1.5	0.0
11	16.0	15.0	10.0	8.0	0.5	0.0	0.0	0.0	0.0	0.0	1.5	0.0
12	15.5	14.5	10.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0
13	16.0	14.5	10.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
14	18.0	15.0	9.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.5
15	16.0	15.0	9.0	8.0	0.5	0.0	0.0	0.0	0.0	0.0	2.0	1.0
16	15.0	11.5	8.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.0
17	11.5	8.0	6.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0
18	10.5	7.0	5.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1.0
19	11.0	8.0	7.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
20	11.0	7.0	6.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0
21	10.5	9.5	7.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1.0
22	11.5	10.5	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1.0
23	13.5	11.5	5.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	5.0	1.5
24	13.5	12.0	3.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.5
25	12.0	11.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
26	12.0	11.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0
27	11.5	9.5	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0
28	10.5	7.0	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	1.0
29	8.5	6.0	5.0	4.5	0.0	0.0	0.0	0.0	---	---	5.5	3.0
30	8.0	6.0	5.0	4.5	0.0	0.0	0.0	0.0	---	---	5.5	3.0
31	8.5	6.5	---	---	0.0	0.0	0.0	0.0	---	---	7.0	2.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	3.0	8.5	5.5	22.0	15.0	23.5	18.5	21.5	18.5	23.5	17.0
2	5.5	4.0	9.0	8.0	18.5	15.5	21.5	18.5	23.0	20.0	20.0	18.0
3	9.0	3.5	8.5	7.0	22.0	16.0	21.5	16.0	21.5	19.5	22.0	18.0
4	5.5	4.0	8.5	6.5	24.5	17.0	21.0	15.0	19.5	18.5	24.0	19.5
5	4.5	3.5	10.0	6.5	24.0	18.5	21.5	15.0	22.0	17.0	24.5	20.5
6	4.0	3.0	9.5	9.0	25.0	18.0	20.5	15.0	24.0	18.0	24.0	20.0
7	5.5	3.0	12.0	8.0	26.0	20.0	22.0	16.5	25.5	18.5	25.5	20.0
8	5.0	3.5	10.5	9.5	27.0	21.0	23.0	16.5	27.0	20.5	25.5	21.0
9	6.0	3.5	9.5	8.5	25.5	20.5	21.5	17.0	28.0	21.5	25.5	21.5
10	5.5	3.0	11.5	8.5	25.5	18.5	19.5	15.0	28.0	23.0	23.5	20.5
11	5.0	2.0	15.5	10.5	25.5	18.5	16.0	12.0	26.0	23.0	23.0	21.0
12	6.5	4.5	14.5	13.5	26.5	20.0	16.0	10.0	25.0	20.0	23.5	20.0
13	8.0	5.5	13.5	10.0	24.5	20.5	18.0	13.5	25.5	19.0	21.0	20.5
14	7.0	4.0	11.5	9.0	22.0	18.5	18.5	14.0	26.0	20.0	23.0	19.5
15	5.0	3.5	11.5	10.0	18.5	15.5	19.0	13.5	22.0	19.0	25.0	20.0
16	4.5	3.5	11.0	10.0	21.0	14.5	16.5	13.5	23.5	18.0	23.0	20.0
17	6.0	3.0	13.5	9.5	21.5	15.5	18.0	13.5	25.0	17.0	20.0	18.5
18	8.0	5.0	16.0	12.0	21.5	16.5	18.5	13.0	25.5	19.0	21.0	18.5
19	9.0	6.0	18.5	14.0	22.0	16.5	15.5	14.5	23.5	19.5	19.0	16.5
20	9.5	8.0	20.0	16.0	22.0	17.0	16.5	13.0	23.0	19.5	16.5	15.5
21	9.5	8.0	18.0	15.5	21.0	18.0	20.0	13.5	21.0	19.0	17.0	15.5
22	8.5	6.0	15.5	13.5	24.5	18.0	20.5	15.0	21.5	16.5	19.0	13.5
23	8.0	5.0	16.5	11.5	24.5	18.0	19.5	15.0	21.0	17.0	16.5	14.5
24	8.5	6.0	17.0	11.5	24.0	19.0	19.5	15.0	20.5	15.0	18.0	14.0
25	6.0	5.5	18.0	14.5	23.0	18.0	19.5	16.5	20.0	14.5	15.5	11.0
26	6.0	4.5	15.5	14.5	22.0	17.0	20.5	16.0	21.5	16.5	13.0	12.0
27	9.0	5.5	15.0	13.0	21.5	15.5	22.0	18.0	19.0	17.0	13.0	12.0
28	7.0	6.0	16.0	11.5	19.0	16.5	21.5	16.5	17.0	16.0	13.0	12.0
29	6.0	6.0	19.0	11.5	20.5	15.5	19.5	17.0	18.5	15.5	16.0	13.0
30	6.5	6.0	16.5	14.0	23.0	18.0	17.0	16.0	22.0	16.5	18.5	14.5
31	---	---	21.0	15.0	---	---	21.0	16.5	23.5	18.0	---	---

01427705 DELAWARE RIVER AT SKINNERS FALLS, N.Y.

LOCATION.--Lat 41°40'12", long 75°03'28", Sullivan County, temperature recorder at Skinners Falls Interstate Bridge no. 5 at Skinners Falls, 1,000 ft downstream from Calkins Creek and 5.3 miles north of Narrowsburg.

DRAINAGE AREA.--1,902 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1967 to July 1970, June to September 1971.

EXTREMES,.--1970-71:
Water temperatures: Maximum, 29.0°C Aug. 10.

Period of record: Water temperatures: Maximum (1967-69, 71), 29.0°C Aug. 10, 1971; minimum (1967-70), freezing point on many days during winter periods.

REMARKS.--No records available June 1-8, July 14-20, Sept. 7-30.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1971

	JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	22.0	20.0	20.0	19.0	20.5	19.5
2	---	---	22.0	19.5	22.0	20.0	20.0	19.5
3	---	---	21.5	17.0	21.5	21.0	20.0	19.0
4	---	---	21.0	16.5	21.0	19.5	21.5	20.0
5	---	---	21.0	16.5	21.5	18.5	23.0	21.0
6	---	---	20.5	16.5	23.0	19.0	22.0	21.5
7	---	---	23.0	18.0	24.5	20.0	---	---
8	---	---	23.0	18.0	26.5	21.5	---	---
9	25.0	20.5	22.0	19.0	28.5	23.5	---	---
10	26.0	18.0	20.5	17.0	29.0	24.0	---	---
11	25.5	18.0	19.0	15.0	28.5	24.5	---	---
12	26.0	19.5	17.0	13.0	27.0	21.5	---	---
13	24.5	21.5	18.0	14.0	27.0	21.0	---	---
14	22.0	19.5	---	---	27.0	22.0	---	---
15	19.5	16.5	---	---	25.0	23.0	---	---
16	21.0	15.5	---	---	25.5	20.5	---	---
17	22.0	17.0	---	---	24.5	21.0	---	---
18	23.0	18.5	---	---	25.0	20.5	---	---
19	22.0	18.5	---	---	23.0	21.5	---	---
20	22.0	18.5	---	---	23.5	21.0	---	---
21	21.5	19.0	18.0	14.0	22.0	20.5	---	---
22	24.0	18.5	19.5	16.0	21.5	18.5	---	---
23	23.5	19.0	19.0	16.0	20.5	19.0	---	---
24	24.0	20.5	18.5	16.0	20.5	16.5	---	---
25	22.0	19.5	19.0	17.0	19.5	17.0	---	---
26	22.0	19.0	19.5	17.0	20.5	19.0	---	---
27	21.5	17.0	20.5	18.5	20.5	19.0	---	---
28	20.0	18.5	20.0	18.0	19.0	18.0	---	---
29	20.5	17.0	19.5	18.5	19.5	17.0	---	---
30	21.5	18.5	19.0	18.0	20.5	18.5	---	---
31	---	---	19.5	17.0	20.5	20.0	---	---

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, N.Y.

LOCATION.--Lat 41°30'30", long 74°59'15", Sullivan County, temperature recorder at gaging station 1.6 miles upstream from Lackawaxen River and 4.6 miles northwest of Barryville.

DRAINAGE AREA.--2,023 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 28.0°C Aug. 14.

Period of record:
Water temperatures: Maximum, 29.0°C July 17, 18, 1968.

REMARKS.--No records available for October 28 to March 23.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MAR. 02...	1510	7370	3.2	7.0	1.1	2.6	.9	13
AUG. 18...	1600	1040	1.4	7.0	1.6	2.5	1.0	19

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
MAR. 02...	0	11	12	4.7	.1	.02	.09	1.9	50
AUG. 18...	0	16	10	4.0	.1	--	--	.4	--

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAR. 02...	40	7	22	11	68	6.6	.0	9
AUG. 18...	37	--	24	8	70	7.1	25.5	--

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01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, N.Y.—Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.0	---	---	---	---	---	---	---	---	---	---
2	13.0	11.5	---	---	---	---	---	---	---	---	---	---
3	13.5	12.0	---	---	---	---	---	---	---	---	---	---
4	14.0	12.0	---	---	---	---	---	---	---	---	---	---
5	14.0	12.0	---	---	---	---	---	---	---	---	---	---
6	14.5	12.0	---	---	---	---	---	---	---	---	---	---
7	14.5	13.0	---	---	---	---	---	---	---	---	---	---
8	15.5	14.0	---	---	---	---	---	---	---	---	---	---
9	16.0	15.0	---	---	---	---	---	---	---	---	---	---
10	16.5	15.5	---	---	---	---	---	---	---	---	---	---
11	16.5	16.0	---	---	---	---	---	---	---	---	---	---
12	16.0	15.5	---	---	---	---	---	---	---	---	---	---
13	16.5	15.0	---	---	---	---	---	---	---	---	---	---
14	16.0	15.5	---	---	---	---	---	---	---	---	---	---
15	16.5	16.0	---	---	---	---	---	---	---	---	---	---
16	16.0	13.5	---	---	---	---	---	---	---	---	---	---
17	13.5	9.5	---	---	---	---	---	---	---	---	---	---
18	10.0	9.0	---	---	---	---	---	---	---	---	---	---
19	10.0	8.5	---	---	---	---	---	---	---	---	---	---
20	10.0	8.5	---	---	---	---	---	---	---	---	---	---
21	10.5	9.0	---	---	---	---	---	---	---	---	---	---
22	11.0	10.5	---	---	---	---	---	---	---	---	---	---
23	13.0	11.0	---	---	---	---	---	---	---	---	---	---
24	13.0	12.0	---	---	---	---	---	---	---	---	4.0	2.0
25	13.0	12.0	---	---	---	---	---	---	---	---	3.5	1.5
26	12.0	11.5	---	---	---	---	---	---	---	---	3.5	1.0
27	11.5	10.5	---	---	---	---	---	---	---	---	4.5	1.5
28	---	---	---	---	---	---	---	---	---	---	5.0	2.0
29	---	---	---	---	---	---	---	---	---	---	5.0	3.5
30	---	---	---	---	---	---	---	---	---	---	4.5	4.0
31	---	---	---	---	---	---	---	---	---	---	5.5	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	4.0	8.5	6.5	21.5	18.0	25.0	22.0	21.5	21.0	23.0	20.5
2	5.5	4.5	8.5	8.0	20.5	19.0	24.5	23.0	22.0	21.0	22.0	20.5
3	5.5	4.5	8.5	8.5	21.5	18.5	24.0	1.0	23.0	22.0	23.0	20.5
4	5.5	4.0	8.5	7.0	23.5	20.0	23.5	20.0	22.0	20.5	24.5	22.0
5	5.0	4.0	9.5	7.0	24.5	21.0	24.0	20.5	21.0	19.5	24.0	22.0
6	4.0	3.5	9.5	9.0	24.0	21.0	23.0	20.5	22.0	20.0	24.5	23.0
7	5.0	3.5	11.0	9.0	25.5	22.0	23.5	20.5	23.5	21.0	24.5	23.0
8	5.5	4.0	11.0	10.5	26.5	24.0	24.5	21.0	25.0	22.0	25.0	24.0
9	6.0	4.0	10.5	9.5	25.5	23.5	25.0	22.0	26.0	24.0	25.0	24.0
10	6.0	4.5	11.0	9.0	25.5	22.0	24.0	21.5	27.0	25.0	25.0	24.0
11	4.5	3.5	14.0	11.0	25.0	22.0	22.0	19.0	26.5	26.0	24.0	23.5
12	6.0	4.0	14.5	14.0	25.5	23.5	20.5	17.0	26.5	24.5	24.0	23.0
13	8.0	6.0	14.5	12.0	25.0	24.0	19.5	17.0	26.0	24.0	23.0	23.0
14	8.0	5.5	12.0	11.0	24.0	21.5	21.0	18.0	28.0	24.5	23.0	21.5
15	5.5	4.0	13.0	11.0	21.5	20.0	20.5	18.0	26.5	24.5	23.5	21.0
16	5.0	4.5	13.0	11.5	22.0	19.0	21.0	19.0	25.0	23.5	23.0	21.5
17	5.5	4.0	13.5	11.0	23.5	19.5	20.5	19.0	26.0	22.0	21.5	20.5
18	7.0	5.0	15.5	13.0	24.5	21.0	20.5	18.0	26.5	23.5	21.5	20.0
19	9.0	6.5	17.0	15.5	24.0	21.5	19.5	18.5	25.0	24.0	21.0	19.0
20	9.5	8.0	19.5	17.0	23.5	21.5	19.0	17.0	25.0	23.5	19.0	18.5
21	10.0	8.5	19.0	18.0	23.5	21.5	20.5	16.5	25.0	24.0	19.0	17.0
22	9.5	8.0	18.0	16.0	24.5	21.0	21.0	18.5	24.5	23.0	19.0	16.0
23	8.0	6.0	16.5	15.0	25.5	21.5	21.5	20.0	23.0	21.0	18.0	16.5
24	8.0	6.5	16.5	14.5	25.5	23.0	21.0	20.0	22.0	19.0	18.0	15.5
25	8.0	6.0	18.0	15.5	25.0	23.5	22.0	20.5	22.0	19.0	16.5	14.5
26	6.0	5.5	17.0	16.0	24.5	23.0	23.0	20.5	22.0	20.5	16.0	14.5
27	8.5	6.0	16.5	15.5	24.5	21.0	23.5	21.5	22.0	20.5	15.0	14.5
28	8.5	7.0	18.0	15.0	22.0	21.0	24.0	21.0	21.0	20.0	15.0	14.5
29	7.0	6.5	19.0	15.5	22.0	20.0	23.5	21.5	20.0	19.0	17.0	15.0
30	7.0	6.0	18.0	16.5	24.0	21.0	21.5	21.0	21.0	19.5	18.5	16.5
31	---	---	20.0	16.5	---	---	21.0	20.0	22.0	21.0	---	---

01432160 DELAWARE RIVER AT BARRYVILLE, N.Y.

LOCATION.--Lat 41°28'31", long 74°54'46", Sullivan County, temperature recorder at Shohola-Barryville Bridge at Barryville, just upstream from Halfway Brook and 1,000 ft upstream of Shohola Brook.

DRAINAGE AREA.--2,692 sq mi.

PERIOD OF RECORD.--Chemical quality: October 1957 to September 1958.
Water temperatures: October 1967 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximun, 270°C Aug. 9, minimum, freezing point on many days during December to March.

Period of record:
Water temperatures: Maximum, 29.0°C July 18, 1968; minimum, freezing point on many days during winter periods.

REMARKS.--Recorder stopped Nov. 21-24.

COOPERATION.--Water temperature recorder graph furnished by the Board of Water Supply, City of New York.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.0	9.5	8.5	4.5	3.5	0.0	0.0	0.0	0.0	1.5	0.0
2	14.5	12.0	9.5	8.5	5.0	4.0	0.0	0.0	0.0	0.0	1.0	0.0
3	14.5	13.0	9.5	9.0	4.5	3.5	0.0	0.0	0.5	0.0	1.0	0.5
4	13.5	13.0	10.0	9.5	5.0	3.0	0.0	0.0	0.5	0.0	0.5	0.0
5	14.5	11.5	10.0	8.0	3.5	1.5	0.0	0.0	0.0	0.0	1.5	0.0
6	15.0	12.0	8.0	7.0	1.5	0.0	0.0	0.0	0.5	0.0	2.0	0.0
7	16.5	13.5	8.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.0
8	17.0	15.0	8.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
9	17.0	15.5	7.0	6.5	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.0
10	18.0	16.0	7.0	6.5	1.0	0.5	0.0	0.0	0.5	0.0	1.5	0.0
11	18.0	16.5	9.0	7.0	1.5	0.5	0.0	0.0	0.0	0.0	2.0	0.5
12	17.0	16.0	10.0	9.0	1.5	0.0	0.0	0.0	0.5	0.0	3.5	1.0
13	18.0	16.0	10.0	10.0	1.5	0.5	0.0	0.0	0.0	0.0	3.0	2.0
14	18.5	16.5	10.0	9.5	0.5	0.5	0.0	0.0	0.0	0.0	4.5	2.0
15	18.0	17.0	10.0	9.0	1.0	0.5	0.0	0.0	0.0	0.0	4.0	2.0
16	17.0	14.5	9.0	8.0	1.5	0.0	0.0	0.0	1.0	0.0	4.0	1.0
17	14.5	10.5	8.0	6.0	0.5	0.0	0.0	0.0	0.5	0.0	3.5	3.0
18	11.0	10.0	6.5	6.0	0.5	0.0	0.0	0.0	1.5	0.0	4.0	3.0
19	11.0	9.5	7.0	6.0	1.0	0.0	0.0	0.0	1.0	0.0	3.5	2.0
20	11.0	9.0	7.0	6.5	1.0	0.5	0.0	0.0	0.5	0.5	3.5	1.5
21	11.0	10.5	---	---	1.0	0.0	0.0	0.0	0.5	0.5	4.0	3.0
22	.3.0	11.0	---	---	1.0	0.0	0.0	0.0	0.5	0.0	4.0	3.0
23	13.5	12.0	---	---	0.0	0.0	0.0	0.0	0.5	0.5	5.0	3.5
24	14.0	13.0	---	---	0.0	0.0	0.0	0.0	1.0	0.0	4.0	3.0
25	13.5	13.0	3.5	1.5	0.0	0.0	0.0	0.0	1.0	0.5	4.5	2.0
26	13.0	12.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	4.5	2.0
27	13.0	11.0	3.0	1.5	0.0	0.0	0.0	0.0	1.0	0.5	5.5	2.0
28	11.0	9.5	4.0	3.0	0.0	0.0	0.0	0.0	1.0	0.0	5.5	3.5
29	9.5	8.5	4.0	4.0	0.0	0.0	0.0	0.0	---	---	6.0	4.5
30	9.0	8.0	4.5	4.0	0.0	0.0	0.0	0.0	---	---	5.0	4.0
31	9.0	8.0	---	---	0.5	0.0	0.0	0.0	---	---	5.5	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	4.0	9.5	7.0	20.5	17.0	24.5	20.0	21.5	20.5	21.0	18.0
2	6.0	4.5	9.5	9.0	19.0	17.0	23.5	21.0	22.0	21.0	19.5	17.0
3	6.0	4.5	9.5	8.5	21.0	17.0	23.5	20.0	22.0	20.5	23.0	18.0
4	6.0	4.5	9.5	8.0	23.0	19.0	23.0	20.0	21.0	19.5	23.5	18.5
5	5.5	4.5	11.0	8.5	23.0	18.5	23.5	19.5	21.0	18.5	23.0	21.0
6	4.5	4.0	11.0	9.5	24.0	20.0	23.0	19.5	22.0	19.0	24.0	21.5
7	6.0	4.0	13.0	9.5	26.5	20.0	23.5	20.5	23.5	19.5	24.0	21.5
8	6.0	4.5	12.0	11.0	26.0	19.5	25.0	20.5	25.0	20.0	23.5	20.5
9	6.5	4.5	11.0	10.0	24.5	19.0	24.5	21.0	27.0	22.0	24.5	20.5
10	6.5	5.5	13.0	9.5	25.5	16.5	23.0	20.5	25.5	20.0	23.0	20.5
11	6.0	4.0	15.0	11.5	25.5	16.5	22.0	19.0	24.5	20.0	22.0	20.0
12	7.0	5.0	15.0	14.5	26.5	19.5	20.5	17.0	25.0	18.0	23.5	21.5
13	8.5	6.5	15.0	11.0	24.5	20.0	19.5	16.5	24.0	16.0	23.0	21.5
14	8.5	6.0	12.0	10.5	23.0	21.0	20.0	18.0	25.0	16.5	22.0	20.5
15	6.0	5.0	13.0	10.5	21.0	18.5	20.5	17.0	22.0	20.5	24.0	20.5
16	6.0	5.0	13.0	11.5	21.0	17.0	20.5	18.0	22.0	19.0	23.5	21.0
17	7.0	4.5	14.0	11.5	23.0	18.5	20.5	18.5	22.0	16.5	21.5	20.0
18	9.0	5.5	16.5	13.0	23.5	20.0	20.5	17.0	23.0	16.5	23.0	20.0
19	10.0	7.0	19.0	14.5	24.0	20.0	18.5	17.0	21.0	18.0	20.5	18.5
20	11.0	8.5	20.0	16.0	23.0	20.5	18.0	16.5	21.5	18.0	19.5	18.0
21	11.0	9.0	18.0	15.5	23.0	20.5	20.0	16.0	21.5	19.0	20.0	19.0
22	9.5	8.5	17.0	15.0	24.0	20.0	21.0	18.0	21.0	19.0	19.5	17.0
23	9.5	6.5	17.0	14.5	24.5	20.0	21.5	19.0	20.5	18.5	19.0	18.0
24	9.0	7.0	17.0	14.0	24.5	21.0	21.0	19.0	19.0	15.5	19.0	17.0
25	8.5	6.5	18.0	15.0	24.5	21.0	21.0	19.0	19.5	15.5	17.0	15.0
26	8.0	6.5	16.5	15.5	24.0	20.5	23.0	19.5	20.5	17.0	16.5	15.0
27	10.0	6.5	16.0	15.0	24.0	20.5	22.0	20.0	19.5	17.0	15.0	15.0
28	8.5	8.0	17.0	14.5	21.5	19.5	23.0	19.5	18.0	16.5	15.5	15.0
29	8.0	7.0	19.0	15.0	21.0	19.0	22.0	20.5	18.5	16.5	20.0	15.5
30	8.5	7.0	18.5	16.5	24.0	20.5	21.5	20.0	20.5	17.0	19.0	18.0
31	---	---	19.5	16.0	---	---	21.0	19.5	20.5	19.0	---	---

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.

LOCATION.--Lat 41°22'14", long 74°41'52", Orange County, N.Y.-Pike County, Pa., at gaging station at bridge on U.S. Highways 6 and 209 at Port Jervis, 1.2 miles upstream from Neversink River, and 6.5 miles downstream from Mongaup River.

DRAINAGE AREA.--3,076 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1959, July 1964 to June 1965, August 1966 to September 1971.
Water temperatures: February 1957 to September 1960.
Sediment records: February 1957 to September 1960; March 1970 to September 1971.

EXTREMES, 1970-71.--Sediment concentration: Maximum daily 140 mg/l May 14; minimum daily, 1 mg/l on many days all year.
Sediment discharge: Maximum daily 5,590 tons May 14; minimum daily 3 tons Sept. 20.

Period of record:
Sediment concentrations: Maximum daily 559 mg/l Apr. 6, 1958; minimum daily 1 mg/l on many days in 1957 and 1971.
Sediment discharge: Maximum daily 69,500 tons Dec. 21, 1957; minimum daily 1 ton Aug. 29, 1957.

COOPERATION.--Chemical samples furnished by the New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 14...	1105	2200	1.0	60	0	7.1	1.5	2.9	.8	20	0
DEC. 16...	1043	2200	2.5	20	10	8.5	1.2	2.5	.5	14	0
MAR. 17...	1120	18000	2.9	110	0	7.0	1.1	2.7	1.0	11	0
APR. 14...	1025	19400	2.1	50	10	6.0	1.0	1.9	.6	11	0
MAY 12...	1055	4400	1.3	30	0	6.5	1.4	2.2	.7	16	0
JUNE 09...	1120	1400	1.9	70	50	7.1	1.4	2.8	1.1	16	0
JULY 07...	1100	2100	1.2	60	60	7.8	1.8	3.0	1.0	20	0
AUG. 04...	1145	10000	2.5	80	0	7.5	1.3	2.9	1.2	15	0
SEP. 02...	1110	1880	1.9	60	0	7.5	1.5	2.8	.9	18	0
29...	1015	1840	2.0	70	0	8.0	1.4	3.1	.8	19	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)
OCT. 14...	16	10	4.3	.0	.35	--	.02	.20	.7	.04
DEC. 16...	11	11	5.3	.1	.19	--	.06	.20	1.4	.11
MAR. 17...	9	12	3.9	.0	.56	--	.02	.12	2.4	.34
APR. 14...	9	11	3.0	.0	.30	--	.01	.17	1.9	.35
MAY 12...	13	9.2	4.0	.0	.71	--	.02	.18	1.3	.09
JUNE 09...	13	9.7	4.7	.0	.77	--	.01	.11	1.3	.10
JULY 07...	16	10	4.9	.0	.31	.77	.03	.15	1.4	.06
AUG. 04...	12	11	4.6	.0	.57	.96	.16	.13	1.0	.25
SEP. 02...	15	10	5.1	.0	.61	1.0	.01	.44	.3	.06
29...	16	9.5	4.2	.0	.39	.64	.02	.09	.8	.12

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 14...	45	39	13	24	8	75	7.2	2	3	.00
DEC. 16...	33	40	19	26	15	68	6.7	7	29	.02
MAR. 17...	52	39	14	22	13	66	6.7	17	16	.03
APR. 14...	42	33	15	19	10	57	6.8	9	8	.03
MAY 12...	--	35	--	21	9	64	7.0	--	10	.00
JUNE 09...	--	38	--	23	10	69	7.2	--	8	.03
JULY 07...	--	42	--	27	10	76	7.2	--	13	.02
AUG. 04...	--	41	--	24	12	72	7.0	--	23	.03
SEP. 02...	--	40	--	25	10	72	7.0	--	10	.03
29...	--	40	--	26	10	70	7.0	--	10	.01

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2130	4	23	2170	1	6	3210	2	17
2	2240	2	12	2460	1	7	2960	2	16
3	2460	1	7	1910	2	10	2730	1	7
4	2630	2	14	1720	4	19	2750	1	7
5	2610	4	28	2170	6	35	3440	--	--
6	2650	4	29	2350	4	25	3120	--	--
7	2630	5	36	2100	2	11	3010	--	--
8	2800	4	30	1850	1	5	2420	--	--
9	2490	4	27	1980	2	11	2730	--	--
10	2490	4	27	2080	3	17	2680	--	--
11	2330	4	25	2210	4	24	3040	--	--
12	2750	4	30	2650	6	43	3090	--	--
13	3010	5	41	3710	7	70	2460	--	--
14	2650	5	36	5190	9	126	2440	--	--
15	2800	5	38	5400	12	175	2650	6	43
16	5120	5	69	7790	18	379	2510	--	--
17	4590	5	62	6870	20	371	2330	--	--
18	2960	6	48	5540	17	254	2280	--	--
19	2630	6	43	4890	10	132	2260	--	--
20	2170	3	18	4660	10	126	2300	--	--
21	1830	3	15	6750	14	288	2700	--	--
22	2650	3	21	7710	20	416	2960	--	--
23	9680	--	E400	6270	4	68	2000	--	--
24	17700	--	E2000	5780	13	203	2000	--	--
25	8510	--	E250	4990	13	175	2000	--	--
26	6060	6	98	3920	3	32	1950	--	--
27	5020	6	81	3560	2	19	1800	--	--
28	4010	6	65	3090	1	8	1700	4	18
29	3150	6	51	2880	1	8	2100	--	--
30	2780	4	30	3120	1	8	1900	--	--
31	2560	2	14	--	--	--	2000	--	--
TOTAL	120090	--	3668	117770	--	3071	77720	--	E870

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1800			2200	--	--	14900	--	--
2	1600			3200	--	--	13100	--	--
3	2100			3300	--	--	10200	--	--
4	3000			3000	--	--	9330	--	--
5	3530			2700	--	--	7180	--	--
6	4070			2000	--	--	6340	--	--
7	5470			1290	--	--	6910	--	--
8	6060			1850	--	--	7890	--	--
9	3920			2800	--	--	6950	--	--
10	3070			3500	--	--	5020	--	--
11	3530			3200	--	--	4980	--	--
12	3560			2100	--	--	4660	--	--
13	3740			2500	--	--	4540	--	--
14	3830			5000	--	--	4380	--	--
15	3000			9000	--	--	6990	--	--
16	2800			11000	--	--	15200	--	--
17	2600			8500	--	--	19000	--	--
18	2500			7000	--	--	13500	--	--
19	3200			6400	--	--	11200	--	--
20	3300			6000	--	--	9830	--	--
21	3400			6130	--	--	8380	--	--
22	3400			7070	--	--	8050	3	65
23	2700			7510	--	--	6610	4	71
24	2170			9190	--	--	6340	4	68
25	2630			8690	7	164	5970	6	97
26	3410			7270	6	118	5250	5	71
27	3400			8240	6	133	4630	5	63
28	3300			13100	6	212	4260	4	46
29	3400			--	--	--	4730	4	51
30	2510			--	--	--	5590	3	45
31	1910			--	--	--	5520	3	45
TOTAL	98910	--	E1350	153740	--	E2420	247430	--	E2950

CONTINUED NEXT PAGE

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5620	3	46	5940	4	64	2770	2	15
2	6760	1	18	5310	6	86	2460	3	20
3	11500	1	31	5900	8	127	2480	2	13
4	14500	2	78	6010	10	162	2630	1	7
5	14800	1	40	5590	8	121	2230	2	12
6	12900	1	35	5520	9	134	1550	3	13
7	11600	4	125	4760	8	103	1720	2	9
8	12200	1	33	4570	8	99	2110	39	210
9	10800	1	29	4820	8	104	1840	38	189
10	13300	1	36	5450	8	118	1400	45	173
11	14600	5	197	5350	8	116	1370	2	7
12	13900	3	113	4540	6	74	1160	3	9
13	15400	2	83	5900	67	1460	1040	2	6
14	20300	17	1020	15200	140	5590	1480	2	8
15	18600	16	803	12100	17	555	1840	8	40
16	14200	9	345	9650	16	417	2070	28	156
17	11800	12	382	8980	8	194	2270	23	141
18	10100	23	627	7810	7	148	2170	20	117
19	9240	53	1320	6760	2	36	2090	22	124
20	9150	47	1160	5620	2	30	1900	12	62
21	9200	11	273	5380	1	15	1990	16	86
22	8980	6	145	5250	4	57	1900	28	144
23	8550	6	139	4510	4	49	1880	16	81
24	7450	6	121	4020	1	11	1920	28	145
25	6640	6	108	3900	2	21	2050	40	221
26	6270	6	102	3700	4	40	2480	20	134
27	6040	6	198	3450	1	9	2070	17	95
28	5550	8	120	3080	3	25	2250	4	24
29	6190	8	134	2770	2	15	2050	6	33
30	7140	6	116	2330	1	6	1990	4	21
31	--	--	--	2700	2	15	--	--	--
TOTAL	323280	--	7877	176870	--	10001	59160	--	2315

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2550	4	28	2350	4	25	2310	1	6
2	2150	4	23	2250	4	24	1970	2	11
3	1900	3	15	3160	24	226	1820	2	10
4	1990	5	27	9200	107	2650	1780	2	10
5	1990	6	32	7490	30	629	1590	2	9
6	2070	6	34	4410	14	167	2040	2	11
7	1770	4	19	3080	12	100	2220	2	12
8	1840	12	60	2570	10	69	2280	2	12
9	2290	8	49	1840	7	35	2190	2	12
10	2380	14	90	2290	4	25	2310	2	12
11	1980	11	59	2030	2	11	2260	1	6
12	2050	10	55	1670	2	9	2130	1	6
13	2070	10	56	1670	1	5	2070	1	6
14	1960	5	26	1620	1	4	2650	1	7
15	2130	12	69	1450	1	4	2360	1	6
16	2170	9	53	1940	1	5	2430	2	13
17	2400	10	65	2090	1	6	2500	2	14
18	2310	7	44	2110	6	34	2140	2	12
19	2480	6	40	2170	12	70	1590	1	4
20	2050	10	55	2270	8	49	1260	1	3
21	1810	8	39	2480	4	27	2420	1	7
22	1990	8	43	2380	10	64	2210	1	6
23	2150	6	35	2290	16	99	2140	1	6
24	2130	10	58	2090	9	51	2160	2	12
25	2380	6	39	1990	2	11	2200	2	12
26	2420	12	78	1980	2	11	2000	2	11
27	2700	8	58	2550	2	14	1790	1	5
28	2170	7	41	6010	3	49	1910	2	10
29	2270	6	37	6610	4	71	1660	2	9
30	2930	6	47	4170	3	34	2130	2	12
31	2770	5	37	3130	2	17	--	--	--
TOTAL	68250	--	1411	93340	--	4595	62520	--	272

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1,599,080
TOTAL LOAD FOR YEAR (TONS) 40,800
E - ESTIMATED

01438000 NEVERSINK RIVER AT PORT JERVIS, N.Y.

LOCATION.--Lat 41°21'40", Long 74°41'07", Orange County, at bridge on U.S. Highway 6 (Main Street) in Port Jervis and 0.7 mile upstream from mouth.

DRAINAGE AREA.--333 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT. 14...	1040	119	1.7	70	0	10	1.9	8.2	1.1	30	0
DEC. 16...	1005	593	3.6	60	0	9.2	1.5	4.7	.7	18	0
MAR. 17...	1100	1550	3.2	110	0	6.5	1.3	5.0	.9	11	0
APR. 14...	1000	1160	2.1	70	30	6.0	1.1	3.4	.7	12	0
MAY 12...	1030	334	1.7	60	20	8.5	1.7	4.9	.9	20	0
JUNE 09...	1045	239	3.1	160	80	9.0	1.7	4.9	.6	24	0
JULY 07...	1030	--	3.1	130	80	12	2.2	8.0	1.8	33	0
AUG. 04...	1120	472	3.5	100	30	10	1.9	6.9	2.8	22	0
SEP. 02...	1045	227	2.6	100	40	10	2.7	13	1.2	24	0
29...	1050	231	3.9	160	40	9.0	1.7	5.3	.9	22	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)
OCT. 14...	25	11	11	.1	.19	--	.01	.16	2.5	1.2
DEC. 16...	15	12	9.8	.1	.20	--	.06	.36	1.9	.37
MAR. 17...	9	13	8.2	.0	.38	--	.04	.40	1.7	.30
APR. 14...	10	11	4.4	.0	.24	--	.02	.47	1.0	.33
MAY 12...	16	11	8.1	.1	.86	--	.03	.38	1.0	.26
JUNE 09...	20	11	7.0	.0	.49	--	.01	.12	3.3	1.0
JULY 07...	27	12	11	.1	.39	1.1	.07	.46	1.5	.64
AUG. 04...	18	14	10	.1	.63	1.8	.30	.20	4.1	1.2
SEP. 02...	20	13	20	.0	1.0	1.7	.05	.33	2.2	.64
29...	18	11	6.4	.0	.44	1.0	.02	.22	1.9	.40

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 14...	72	64	12	33	8	122	7.5	3	8	.02
DEC. 16...	70	53	28	29	14	90	7.1	9	18	.04
MAR. 17...	52	46	10	21	13	79	6.8	17	10	.04
APR. 14...	38	36	12	19	10	67	6.8	19	10	.04
MAY 12...	--	49	--	28	12	88	6.9	--	11	.02
JUNE 09...	--	54	--	29	10	96	7.0	--	10	.04
JULY 07...	--	70	--	39	12	122	7.2	--	10	.05
AUG. 04...	--	67	--	33	15	115	7.0	--	24	.05
SEP. 02...	--	79	--	36	16	151	7.0	--	13	.05
29...	--	52	--	29	11	93	6.9	--	31	.04

1500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, at bridge on Bridge Street, in Unadilla, 25 ft upstream from gaging station, 1.0 mile upstream from Carrs Creek, and 1.6 miles downstream from Ouleout Creek.

DRAINAGE AREA.--982 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 23...	1300	328	2.7	10	0	24	2.6	4.9	1.1	68	0	56
NOV. 23...	1315	1220	3.6	--	--	21	2.0	3.1	1.0	56	0	46
DEC. 21...	--	1200	3.2	40	--	18	1.8	3.4	.7	46	0	38
JAN. 25...	1100	1600	3.6	10	0	24	1.9	3.3	.9	64	0	52
FEB. 22...	1100	3000	3.9	130	0	17	1.5	3.2	1.0	41	0	34
MAR. 03...	1830	3460	4.0	--	--	15	1.6	3.0	1.0	36	0	30
24...	1315	2540	3.7	30	0	19	1.8	2.9	.9	48	0	39
APR. 26...	1330	3850	2.7	30	0	21	1.9	2.2	.7	58	0	48
MAY 24...	1300	1210	1.5	10	0	23	2.2	2.9	.9	65	1	55
JUNE 23...	1200	284	1.0	0	0	27	2.9	3.7	1.3	72	0	59
JULY 26...	1200	186	2.0	10	0	28	3.1	4.2	1.3	87	0	71
AUG. 23...	1130	150	2.3	30	0	26	3.1	3.7	1.0	82	0	67
SEP. 24...	1230	308	2.8	70	0	24	2.9	3.9	1.1	68	0	56

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT. 23...	15	6.4	.0	2.4	--	.20	.39	2.2	1.4	85	94	18
NOV. 23...	14	5.5	.0	--	--	.02	.18	2.0	.22	80	81	--
DEC. 21...	13	5.7	.0	--	--	.04	.01	2.7	.10	67	72	8
JAN. 25...	15	5.2	.0	.86	--	.03	.07	3.2	.08	89	89	23
FEB. 22...	15	4.7	.0	.28	--	.12	.10	3.1	.27	67	70	15
MAR. 03...	12	4.4	.1	--	--	.02	.07	4.3	--	62	63	14
24...	12	4.8	.0	.32	--	.02	.10	3.6	.11	84	72	14
APR. 26...	12	3.1	.0	.15	--	.01	.03	1.9	.09	85	74	23
MAY 24...	12	4.6	.0	.30	--	.06	.08	2.3	.09	--	84	--
JUNE 23...	14	6.4	.0	.24	--	.18	.10	1.6	.15	--	94	--
JULY 26...	13	6.0	.0	.38	.90	.51	.37	.3	.34	--	102	--
AUG. 23...	13	7.0	.1	.49	1.0	.03	.36	1.3	.31	--	99	--
SEP. 24...	13	5.7	.1	.44	1.0	.21	.11	1.9	.25	--	90	--

01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.											
23...	70	14	170	7.5	12.5	4	7.4	13	14400	130000	.02
NOV.											
23...	60	14	148	7.3	5.0	2	11.2	--	4700	36000	.04
DEC.											
21...	52	14	129	7.4	1.0	2	13.7	--	--	--	--
JAN.											
25...	68	15	160	7.6	.0	2	14.0	3	450	4500	.03
FEB.											
22...	48	14	121	7.5	.0	9	13.4	10	--	--	.03
MAR.											
03...	44	15	112	7.3	1.0	4	--	--	--	--	--
24...	54	15	130	7.7	1.5	3	12.6	3	190	1400	.02
APR.											
26...	60	13	138	7.7	5.5	4	11.4	8	550	6800	.01
MAY											
24...	66	12	147	8.4	16.0	--	10.6	5	--	--	.02
JUNE											
23...	79	20	178	8.0	22.5	--	9.1	3	210	3900	.02
JULY											
26...	83	11	188	7.7	24.0	--	11.0	12	50	2700	.03
AUG.											
23...	78	10	180	7.6	20.5	--	8.9	10	--	--	.03
SEP.											
24...	72	16	164	7.6	15.0	--	9.4	5	70	1800	.03

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.						
23...	--	--	--	--	--	<.5
MAR.						
24...	0	0	40	3	0	<.5

01509000 TIOUGHNIOGA RIVER AT CORTLAND, N.Y.

LOCATION.--Lat 42°35'48", long 76°09'28", Cortland County, at Cortland Sewage Treatment Plant at Cortland, 0.1 mile downstream from bridge on State Highway 11, and 0.4 mile downstream from gaging station.

DRAINAGE AREA.--292 sq mi (including 14.0 sq mi, the flow from which may be diverted into DeRuyter Reservoir in Oswego River basin).

PERIOD OF RECORD.--Chemical analyses: October 1956 to September 1957.
Water temperatures: October 1956 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 19.0°C July 2; minimum, freezing point on several days during winter period.

Period of record:
Water temperatures: Maximum, 23.5°C July 22, 1957; minimum, freezing point on many days during winter periods.

REMARKS.--No water temperature record June 1-30.

COOPERATION.--Water temperature records furnished by the city of Cortland.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT AT 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	10.0	5.5	1.5	0.5	3.5	4.5	6.5	---	16.0	16.5	14.5
2	11.5	10.5	7.0	3.0	0.0	3.0	5.0	8.5	---	19.0	18.0	15.0
3	10.0	10.0	6.0	3.5	0.0	1.0	5.5	5.0	---	17.0	17.0	15.5
4	11.5	11.0	6.5	3.5	1.0	0.5	4.0	6.5	---	16.5	16.0	15.5
5	11.0	10.0	5.5	4.5	1.0	0.0	4.0	7.0	---	16.0	16.0	16.5
6	12.0	8.5	6.0	0.0	1.0	3.0	4.0	9.0	---	16.5	15.0	16.5
7	13.5	10.0	3.0	0.0	1.5	1.5	4.5	9.5	---	16.5	16.5	17.0
8	14.0	9.0	3.0	3.0	3.0	1.5	3.5	10.0	---	17.0	16.0	17.0
9	13.0	9.0	3.5	1.0	2.0	0.5	4.5	9.0	---	17.0	18.0	17.0
10	13.5	9.5	4.5	0.0	1.0	1.5	4.0	9.5	---	15.5	15.5	15.5
11	13.5	11.0	4.5	4.0	1.5	1.5	3.5	11.0	---	14.5	16.5	16.0
12	14.0	11.0	3.5	3.0	4.0	3.5	5.5	12.0	---	14.5	16.0	16.5
13	14.0	10.5	4.5	2.0	3.5	3.5	6.5	11.0	---	14.5	15.5	15.5
14	14.5	9.0	4.0	2.0	3.0	4.0	4.5	9.0	---	14.5	16.0	15.0
15	14.0	8.5	4.5	4.0	1.0	5.0	4.0	10.0	---	15.0	15.5	15.0
16	13.5	6.5	3.0	2.0	1.0	2.0	5.0	11.5	---	14.5	15.0	15.0
17	8.0	6.5	3.5	2.0	0.5	1.5	6.5	12.0	---	15.5	15.0	14.0
18	13.5	6.0	4.0	0.0	3.0	1.5	6.0	12.0	---	15.0	15.5	14.5
19	9.5	7.0	4.5	1.5	0.0	3.0	7.0	14.0	---	14.5	16.0	13.5
20	9.5	6.5	4.0	0.5	0.5	2.0	8.5	15.0	---	15.5	16.0	14.5
21	10.5	7.0	4.0	0.5	3.0	2.0	8.5	14.0	---	15.0	14.5	14.0
22	11.0	6.0	2.0	4.0	2.0	4.5	6.5	14.0	---	15.5	16.0	14.0
23	11.5	6.5	1.0	4.5	1.0	3.0	6.5	12.0	---	16.5	14.5	13.5
24	12.0	4.0	0.0	3.0	2.0	1.5	8.0	11.5	---	16.5	14.0	13.5
25	11.0	4.0	2.0	4.5	0.5	2.0	6.5	13.5	---	17.0	12.0	12.0
26	11.5	4.5	0.0	4.5	2.0	2.0	6.5	13.0	---	16.0	15.0	12.0
27	11.0	4.5	2.0	0.5	4.0	3.0	6.5	11.5	---	16.0	14.0	12.0
28	10.0	5.0	0.0	0.0	1.5	3.0	7.0	10.0	---	16.0	14.5	12.0
29	9.0	6.5	0.0	1.0	---	5.5	6.5	13.5	---	15.5	14.5	13.0
30	10.0	7.0	0.0	0.5	---	4.5	7.0	13.5	---	16.0	15.0	14.0
31	10.0	---	0.0	0.0	---	4.0	---	13.5	---	16.5	15.0	---
AVERAGE	11.5	8.0	3.5	2.0	1.5	2.5	5.5	11.0	---	16.0	15.5	14.5

01513107 SUSQUEHANNA RIVER AT C.F.J. MEMORIAL BRIDGE AT JOHNSON CITY, N.Y.

LOCATION.--Lat 42°06'13", long 75°58'10", Broome County, at C.F.J. Memorial Bridge in Johnson City and 3.0 miles downstream from Chenango River.

DRAINAGE AREA.--3,891 sq mi at mouth of Chenango River.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
05...	1315	13.5	11.2	--	1200	250	8.3	10	.2	--
31...	1130	9.0	11.6	100	1100	200	7.9	0	<.5	--
DEC.										
07...	1100	.5	12.4	--	13000	155	6.7	0	<.5	--
JAN.										
05...	1130	.0	12.2	19100	99000	220	7.1	0	--	--
30...	1230	.0	13.6	10	1670	100	7.6	0	<.5	--
MAR.										
01...	1400	2.0	10.0	2400	25000	135	6.0	0	<.5	--
APR.										
05...	1145	3.5	10.9	230	3200	145	7.6	0	<.5	--
MAY										
01...	1130	7.5	10.0	640	5800	145	7.4	0	<.5	--
JUNE										
07...	1130	22.0	10.1	340	2500	280	7.7	0	<.5	--
JULY										
06...	1115	25.0	8.6	240	6500	265	7.5	0	--	<.5
AUG.										
03...	1430	22.0	7.4	--	--	170	7.7	6	--	<.5
31...	1230	22.0	8.4	166	--	470	8.0	0	--	<.5

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
AUG.											
31...	1.2	50	11	26	2.9	148	0	121	58	43	.4

DATE	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED-PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)
AUG.											
31...	.70	1.6	.87	.070	.17	.7	.40	.37	305	271	11

DATE	TOTAL FILTRABLE RESIDUE (MG/L)	FIXED FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	OIL AND GREASE (MG/L)
AUG.											
31...	170	4	3	170	49	2	3	8	1.7	.0	1.0

DATE	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG.										
31...	2	.00	.10	100	6	0	30	1	40	20

DATE	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG.					
31...	0	30	1	40	20

RADIOCHEMICAL ANALYSIS

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.								
31...	1.1	5.1	<.1	.5	3.2	<.4	4.1	.4

01513110 SUSQUEHANNA RIVER AT JOHNSON CITY, N.Y.

LOCATION.--Lat 42°06'37", long 75°58'30", Broome County, at intake of the New York State Electric and Gas Corporation, Goudey Station, at Johnson City, 100 ft upstream from Little Choconut Creek, 0.5 mile downstream from C.F.J. Memorial Bridge, 3.5 miles downstream from Chenango River and 4.8 miles upstream from former gaging station at Vestal.

DRAINAGE AREA.--3,891 sq mi below mouth of Chenango River.

PERIOD OF RECORD.--Water temperatures: October 1955 to September 1971. Prior to October 1967, published as 01513500, "at Vestal."

EXTREMES.--1970-71:
Water temperatures: Maximum, 25.5°C July 1; minimum, freezing point on several days during winter period.

Period of record:
Water temperatures: Maximum, 28.0°C July 29, 1963, Aug. 18, 1965 and July 18, 1968; minimum, freezing point on many days during winter periods.

REMARKS.--During winter periods water is at times recirculated from inside the plant through the intake to prevent icing conditions, thus resulting in reported water temperatures which are slightly above actual river temperatures.

COOPERATION.--Water temperature records furnished by the New York State Electric and Gas Corporation.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT AT 0800)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	9.5	4.5	0.5	1.0	0.0	3.5	7.0	16.5	25.5	20.0	19.5
2	13.0	10.0	4.5	0.0	1.0	0.5	4.5	8.5	18.0	23.5	20.0	20.5
3	14.0	10.0	4.0	0.5	1.0	1.0	3.0	10.0	16.0	21.5	21.5	20.5
4	14.5	10.0	5.0	0.5	1.0	0.0	3.5	10.5	19.0	21.5	20.5	21.0
5	13.0	9.5	3.5	0.5	1.0	0.0	3.5	10.0	20.0	23.0	18.5	22.0
6	14.0	8.5	2.0	0.0	1.0	0.0	3.0	10.5	19.5	23.5	20.0	23.0
7	15.5	8.0	0.5	0.0	0.5	0.5	3.0	10.5	20.5	22.0	20.5	23.5
8	16.0	8.5	1.0	0.5	0.5	0.5	3.5	13.0	22.0	24.0	21.5	23.5
9	16.5	7.0	0.5	1.0	0.5	0.0	3.5	12.0	21.0	25.0	23.5	24.0
10	17.0	7.0	1.5	0.5	1.0	0.0	5.0	9.0	20.0	24.0	24.0	23.0
11	17.0	8.5	2.0	0.5	0.5	0.0	2.0	10.5	20.0	23.0	24.0	23.0
12	17.0	10.0	1.0	0.5	1.0	0.5	3.5	13.0	21.5	20.0	21.5	23.0
13	17.0	10.5	1.0	1.0	1.0	1.5	5.5	12.0	22.0	20.5	21.0	23.0
14	17.0	10.5	1.5	1.0	0.0	2.0	7.0	10.0	21.5	21.0	21.5	21.5
15	18.0	9.0	1.0	0.5	0.5	3.5	4.5	10.5	19.0	20.0	23.0	21.0
16	15.5	7.0	1.0	1.5	0.0	1.5	4.0	11.5	17.0	21.0	20.5	21.5
17	12.0	6.0	0.5	0.5	0.5	0.5	4.0	13.0	19.0	21.5	21.0	20.0
18	11.0	5.5	0.5	0.5	1.5	0.5	5.0	14.0	20.5	20.5	21.0	19.0
19	12.0	6.0	1.0	1.0	0.0	1.0	6.5	16.0	21.0	21.0	21.5	18.5
20	10.5	6.0	1.5	1.0	0.0	0.5	8.0	18.0	23.0	19.5	23.0	18.0
21	11.5	6.0	1.0	1.0	0.0	1.0	9.0	17.0	23.5	19.0	22.0	18.0
22	12.0	5.5	0.5	1.0	0.0	1.5	10.5	15.0	22.0	20.5	21.5	16.0
23	12.0	5.0	0.5	1.0	0.0	2.0	9.5	14.0	23.0	21.5	21.5	16.0
24	13.0	3.0	0.5	0.5	0.0	1.0	10.0	14.0	23.5	23.0	19.0	15.0
25	11.5	2.0	0.5	1.0	0.0	1.0	7.0	15.0	24.0	23.0	18.5	14.5
26	13.0	1.0	0.5	1.0	0.0	1.0	8.0	16.0	23.5	23.0	19.0	14.5
27	13.0	2.0	0.5	1.0	0.0	1.0	7.0	13.5	23.0	24.0	20.5	14.0
28	10.0	4.5	0.5	1.0	0.0	2.0	9.5	13.5	24.5	21.5	19.0	14.0
29	9.5	4.5	1.0	1.0	---	3.0	8.0	14.0	23.5	23.0	19.0	15.0
30	9.0	5.5	0.5	1.0	---	3.5	9.5	16.0	24.0	21.5	20.0	16.5
31	9.0	---	1.0	1.0	---	3.0	---	19.0	---	21.5	21.0	---
AVERAGE	13.5	7.0	1.5	1.0	0.5	1.0	5.5	13.0	21.0	22.0	21.0	19.5

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, at gaging station at highway bridge, 1.3 miles upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 sq mi

PERIOD OF RECORD.--Chemical analyses: March 1966 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
21...	1015	33	5.8	70	0	38	6.7	7.9	1.9	92	0	75
NOV.												
19...	1100	159	2.1	80	20	26	4.7	3.9	1.3	58	0	48
DEC.												
22...	1100	138	4.7	90	0	22	4.6	4.2	1.0	52	0	43
JAN.												
21...	1030	30	4.1	160	0	32	6.1	6.2	1.1	92	0	75
FEB.												
18...	1000	21	5.2	220	30	30	6.2	7.1	1.1	90	0	74
MAR.												
22...	1030	136	4.6	120	0	22	4.5	4.7	1.3	54	0	44
APR.												
22...	1000	146	2.4	80	0	18	3.6	3.4	1.1	53	0	43
MAY												
20...	0930	33	1.7	70	0	30	6.9	6.2	1.3	95	0	78
JUNE												
21...	1030	8.2	4.2	0	0	45	9.4	8.6	1.9	140	0	115
JULY												
22...	1000	3.3	1.6	20	0	47	10	9.7	1.8	148	4	128
AUG.												
24...	1030	2.2	1.4	30	0	43	11	5.9	1.4	146	0	120
SEP.												
22...	1030	10	5.2	100	0	45	9.6	11	2.8	134	0	110

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT.												
21...	38	14	.1	.24	--	.10	.18	4.3	.30	171	125	31
NOV.												
19...	32	7.6	.2	.28	--	.02	.04	6.3	.04	120	112	9
DEC.												
22...	29	8.3	.0	.40	--	.08	.07	4.1	.32	101	104	12
JAN.												
21...	30	13	.2	.28	--	.04	.01	4.8	.02	151	143	9
FEB.												
18...	31	13	.1	.29	--	.06	.38	2.2	.38	142	141	32
MAR.												
22...	25	9.0	.0	.40	--	.04	.12	5.9	.39	130	105	32
APR.												
22...	19	5.0	.0	.33	--	.04	.08	2.5	.16	91	81	23
MAY												
20...	24	9.1	.1	.43	--	.05	.98	1.4	.41	--	129	--
JUNE												
21...	29	14	.0	.82	--	.01	.07	1.0	.45	--	183	--
JULY												
22...	31	14	.0	.51	.93	.10	.11	1.3	.25	--	194	--
AUG.												
24...	29	12	.1	.22	.49	.03	.06	.9	.12	--	177	--
SEP.												
22...	37	19	.1	.63	1.1	.12	.08	2.0	.34	--	199	--

CONTINUED NEXT PAGE

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.											
21...	122	47	285	7.8	11.0	23	10.6	20	310	470	.04
NOV.											
19...	84	36	194	7.5	5.0	16	13.0	1	19	116	.02
DEC.											
22...	74	31	182	7.4	1.0	12	13.0	0	--	--	.02
JAN.											
21...	105	30	258	7.5	.0	2	11.0	0	67	202	.04
FEB.											
18...	100	26	248	7.5	.0	11	13.6	6	--	--	.03
MAR.											
22...	73	29	184	7.6	2.0	16	13.2	10	--	100	.04
APR.											
22...	59	16	148	7.8	7.0	7	12.2	7	28	100	.02
MAY											
20...	103	25	230	7.9	17.5	--	9.8	11	--	--	.03
JUNE											
21...	151	36	321	7.9	21.0	--	7.7	17	160	1900	.03
JULY											
22...	160	30	331	8.4	18.0	--	11.6	17	130	290	.03
AUG.											
24...	150	33	319	8.2	15.0	--	12.4	11	--	--	.03
SEP.											
22...	150	42	327	8.0	13.0	--	11.0	12	190	970	.03

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.						
19...	--	--	--	--	--	<.5
MAR.						
22...	0	0	170	2	0	<.5

01530900 CHEMUNG RIVER AT WELLSBURG, N.Y.

LOCATION.--Lat 42°01'02", long 76°43'24", Chemung County, at bridge on State Highway 367 at Wellsburg, 0.4 mile downstream from Bentley Creek and 6.3 miles upstream from gaging station (01531000) at Chemung.

DRAINAGE AREA.--2,530 sq mi at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT.										
05...	1010	12.5	7.8	--	3300	415	7.7	0	1.0	--
31...	0930	11.0	9.8	8300	17700	220	7.6	0	<.5	--
DEC.										
07...	0915	1.0	10.4	--	2300	200	7.2	0	<.5	--
JAN.										
05...	0930	.5	12.4	260	9200	240	7.4	0	--	--
30...	1000	.0	13.4	5750	54000	280	7.4	0	<.5	--
MAR.										
01...	1030	2.0	9.5	670	3600	135	7.1	0	<.5	--
APR.										
05...	0930	4.0	11.1	76	680	130	7.2	0	<.5	--
MAY										
.01...	0930	7.5	10.4	20	900	155	7.7	0	<.5	--
JUNE										
07...	0900	21.0	7.1	20	900	355	8.1	0	--	<.5
JULY										
06...	0900	24.0	6.4	120	740	320	8.0	0	--	<.5
AUG.										
03...	1030	24.5	4.7	80	680	380	8.0	2	--	<.5
31...	1000	--	--	290	--	290	8.3	0	--	<.5

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
AUG.											
31...	1.2	40	6.8	7.5	1.5	132	2	112	22	15	.1

DATE	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
AUG.											
31...	.93	1.8	1.4	.030	.49	.4	.070	.010	193	165	0

DATE	TOTAL FILT-RABLE RESIDUE (MG/L)	FIXED FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CHLORO-PHYLL A (UG/L)	OIL AND GREASE (MG/L)
AUG.											
31...	280	5	1	130	16	2	7	10	2.3	.0	1.0

DATE	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG.										
31...	7	.00	.07	100	2	0	60	4	30	10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG.					
31...	0	60	4	30	10

CONTINUED NEXT PAGE

01530900 CHEMUNG RIVER AT WELLSBURG, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.								
31...	<1.2	5.5	<.1	<.4	<3.7	<.4	4.4	<.4

CONEWANGO CREEK BASIN

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, at gaging station 300 ft downstream from bridge on State Highway 17, at Waterboro, 0.2 mile downstream from Davis Brook, and 1.9 miles northeast of Kennedy.

DRAINAGE AREA.--290 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 22...	1200	809	4.4	50	0	28	3.9	2.3	1.4	82	0	67
NOV. 20...	1230	1200	4.8	100	30	25	3.6	2.1	1.2	74	0	61
DEC. 23...	1230	840	4.0	140	0	24	3.9	3.2	1.0	74	0	61
JAN. 22...	1030	252	5.1	300	60	42	4.9	3.6	1.0	111	0	91
FEB. 18...	1500	325	5.4	440	160	32	4.8	3.8	1.1	105	0	86
MAR. 17...	1300	2540	2.5	--	--	13	2.0	1.9	1.2	37	0	30
22...	1500	1160	2.8	0	0	21	3.1	3.0	1.1	62	0	51
APR. 22...	1530	521	2.5	150	0	25	3.5	2.5	1.0	79	0	65
MAY 20...	1400	207	3.1	90	0	38	6.5	3.6	1.1	124	0	102
JUNE 21...	1430	179	5.3	20	0	44	7.5	4.7	1.5	140	0	115
JULY 22...	1510	57	4.4	30	0	54	8.6	5.2	2.0	164	0	135
AUG. 24...	1530	51	4.3	50	0	46	8.0	4.8	1.6	142	0	116
SEP. 22...	1500	46	6.0	80	0	49	8.0	6.9	2.0	155	0	127

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT. 22...	16	5.7	.0	.29	--	.04	.18	1.6	.24	87	104	14
NOV. 20...	17	4.3	.1	.36	--	.02	.06	1.9	--	106	96	7
DEC. 23...	18	6.4	.1	.59	--	.02	.01	2.7	.08	99	100	12
JAN. 22...	21	6.7	.1	.09	--	.05	.08	3.4	.08	128	143	7
FEB. 18...	19	7.0	.0	.33	--	.04	.26	1.4	.08	138	127	17
MAR. 17...	12	4.0	.0	--	--	.04	.20	2.6	--	69	57	16
22...	16	5.0	.0	.38	--	.03	.44	3.1	.10	107	86	27
APR. 22...	14	4.5	.0	.24	--	.05	.08	2.4	.12	102	94	23
MAY 20...	18	6.0	.0	.41	--	.01	.01	2.0	.17	--	140	--
JUNE 21...	25	5.9	.0	.35	--	.03	.05	2.9	.17	--	166	--
JULY 22...	29	7.0	.0	.55	.98	.01	.08	1.6	.21	--	193	--
AUG. 24...	29	7.0	.1	.37	.84	.07	.19	1.3	.21	--	173	--
SEP. 22...	29	9.0	.2	.47	1.0	.02	.07	2.2	.25	--	189	--

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CONEWANGO CREEK BASIN

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT.											
22...	86	19	186	7.5	10.0	13	9.1	12	1200	6000	.01
NOV.											
20...	78	17	169	7.4	5.5	12	10.4	9	150	350	.03
DEC.											
23...	76	15	181	7.3	2.0	9	11.6	8	--	--	.02
JAN.											
22...	125	34	241	7.7	.0	10	10.0	6	92	1000	.00
FEB.											
18...	100	14	227	7.4	1.0	15	8.6	6	--	--	.02
MAR.											
17...	40	10	110	7.2	2.0	22	--	--	--	--	--
22...	65	14	156	7.4	3.0	8	12.0	4	--	80	.03
APR.											
22...	76	12	175	7.7	8.0	6	9.7	7	48	680	.02
MAY											
20...	122	20	248	7.7	19.0	--	7.7	7	--	--	.03
JUNE											
21...	141	26	294	7.7	22.5	--	5.2	8	110	630	.02
JULY											
22...	170	36	330	7.8	20.0	--	7.7	28	60	300	.03
AUG.											
24...	150	31	303	7.6	20.5	--	7.6	4	35	1830	.04
SEP.											
22...	160	28	322	7.7	18.0	--	7.7	9	77	470	.02

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAR.						
22...	0	0	90	3	30	<.5

STREAMS TRIBUTARY TO LAKE ERIE

04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.

LOCATION.--Lat 42°51'16", long 78°45'22", Erie County at gaging station in Gardenville, 300 ft downstream from bridge on Union Road, and 2 miles upstream from Cayuga Creek.

DRAINAGE AREA.--144 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, July 1966 to September 1971.
Water temperatures: October 1961 to September 1962.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
22...	0830	86	1.9	10	0	72	11	25	5.0	174	0	143
NOV.												
20...	0820	180	4.3	60	0	52	7.7	8.0	1.9	141	0	116
DEC.												
23...	0900	211	4.7	40	0	52	7.3	9.2	1.7	140	0	115
JAN.												
21...	1615	90	3.9	50	0	62	9.0	8.4	1.6	174	0	143
FEB.												
19...	0900	118	5.1	50	0	55	7.7	24	2.1	140	0	115
MAR.												
23...	0900	254	4.2	130	0	49	6.6	15	2.1	128	0	105
APR.												
23...	0900	190	1.4	40	0	42	8.1	6.2	1.4	128	0	105
MAY												
21...	0830	58	.1	20	0	56	10	8.3	1.6	174	0	143
JUNE												
22...	0900	81	1.6	0	0	60	13	12	2.5	180	3	153
JULY												
23...	0840	26	.5	20	0	39	9.3	8.7	3.2	122	0	100
AUG.												
25...	0900	25	1.6	10	0	48	12	10	2.3	154	0	126
SEP.												
23...	0900	24	.5	10	0	54	12	14	3.0	155	0	127

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT.												
22...	80	35	.2	.42	--	.11	.23	.4	.24	335	317	50
NOV.												
20...	45	16	.1	.31	--	.02	.07	2.7	.06	226	207	17
DEC.												
23...	45	18	.2	.84	--	.03	.04	4.6	.06	217	213	19
JAN.												
21...	44	19	.2	.18	--	.03	.00	5.2	.00	237	239	7
FEB.												
19...	44	48	.1	.25	--	.05	.24	2.0	.07	263	260	--
MAR.												
23...	39	28	.1	.34	--	.02	.07	4.7	.09	246	212	39
APR.												
23...	30	11	.1	.36	--	.02	.04	2.5	.04	165	166	25
MAY												
21...	37	15	.1	.28	--	.14	.05	1.6	.04	--	216	--
JUNE												
22...	41	18	.0	.57	--	.20	.05	1.3	.07	--	245	--
JULY												
23...	39	15	.0	.51	.59	.07	.06	.1	.09	--	176	--
AUG.												
25...	42	17	.1	.34	.45	.06	.10	.1	.06	--	209	--
SEP.												
23...	56	26	.2	.77	.88	.01	.13	.0	.06	--	245	--

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STREAMS TRIBUTARY TO LAKE ERIE

04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.											
22...	224	81	558	7.9	12.0	12	9.6	16	510	--	.04
NOV.											
20...	161	45	371	7.9	5.0	7	13.3	8	--	3600	.04
DEC.											
23...	160	45	369	8.1	1.0	10	10.8	7	--	--	.04
JAN.											
21...	192	49	419	8.2	.0	5	13.0	8	430	3080	.04
FEB.											
19...	170	55	456	7.8	.0	8	11.0	6	--	--	.04
MAR.											
23...	150	44	376	8.1	1.0	9	12.2	5	200	1700	.04
APR.											
23...	138	33	300	8.2	5.0	3	12.9	3	78	840	.02
MAY											
21...	181	38	386	8.2	15.0	--	10.2	7	--	--	.03
JUNE											
22...	203	51	418	8.3	18.0	--	9.5	10	230	2800	.03
JULY											
23...	140	36	314	8.0	21.0	--	7.9	20	152	2300	.04
AUG.											
25...	170	43	366	8.1	16.0	--	8.5	5	--	--	.02
SEP.											
23...	180	57	422	8.1	14.0	--	9.4	8	170	1600	.03

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.						
20...	--	--	--	--	--	<.5
MAR.						
23...	0	0	40	3	0	<.5

04219735 EIGHTEENMILE CREEK AT LOCKPORT, N.Y.

LOCATION.--Lat 43°11'38", long 78°42'34", Niagara County, at bridge on Stone Road 200 ft west of Purdy Road at northwest Lockport city line.

PERIOD OF RECORD.--Chemical analyses: August 1969 to May 1971 (discontinued).

CHEMICAL ANALYSES, OCTOBER 1970 TO MAY 1971

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	ALKA-LINITY AS CACO3 (MG/L)
NOV. 02...	0910	91	11.5	9.6	--	1000	400	7.7	130
FEB. 01...	0800	40	5.0	7.4	<1	<1	800	8.0	197
MAY 08...	0900	51	9.0	9.8	<1	<1	766	7.7	135

DATE	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
NOV. 02...	.28	.67	.6	.90	.18	296	420	97	4.0
FEB. 01...	1.2	1.8	1.1	.86	.46	543	609	3	3.2
MAY 08...	4.8	.63	.6	1.8	.30	483	796	270	19

04219915 JOHNSON CREEK AT KUCKVILLE, N.Y.

LOCATION.--Lat 43°21'38", long 78°15'54", Orleans County, at bridge on State Highway 18 (Roosevelt Highway) in Kuckville and 1.5 miles upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: July to September 1971.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
JULY 13...	1700	23.0	--	448	8.3	--	59	144	4	125	53
AUG. 04...	1130	21.5	7.8	410	8.0	--	--	154	0	126	53
SEP. 01...	1100	18.0	6.9	348	7.6	4.4	47	102	0	84	54

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)
JULY 13...	38	.54	1.0	.69	.03	.15	.3	.25	.21	322	340
AUG. 04...	38	1.4	1.8	1.6	.03	.24	.2	.22	.18	339	344
SEP. 01...	29	1.2	2.0	--	.07	.27	.6	.26	.15	264	272

DATE	LOSS ON IGNI-TION (MG/L)	RESIDUE ON IGNI-TION (MG/L)	FIXED FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
JULY 13...	84	--	12	12	--	6	19	.6	--	.05	--
AUG. 04...	91	246	5	11	--	1	17	1.8	--	--	--
SEP. 01...	63	208	23	27	11	10	22	3.7	.00	.05	15

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METH-OXY-CHLOR (UG/L)	TOX-APHENE (UG/L)
JULY 13...	.00	.00	.01	--	--	.01	.00	.00	.00	.00	.00	.00
AUG. 04...	.00	.00	--	.00	.00	.01	.00	.00	.00	.01	.00	.00
SEP. 01...	.00	--	.00	.00	.00	<.01	.00	.00	--	.00	--	--

DATE	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	PCB (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 13...	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	11
AUG. 04...	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	--
SEP. 01...	.05	.02	.02	.00	.00	.00	.00	.00	.00	.00	--	10

04220252 WEST CREEK AT HILTON, N.Y.

LOCATION.--Lat 43°18'30", long 77°46'30", Monroe County, at bridge on Bennett Road, 0.2 mile south of Curtis Road, 0.9 mile northeast of Hilton and 2.4 miles downstream from former gaging station (04220250).

PERIOD OF RECORD.--Chemical analyses: August 1970 to May 1971 (discontinued).

CHEMICAL ANALYSES, AUGUST 1970 TO MAY 1971

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	ALKA-LINITY AS CACO3 (MG/L)
AUG., 1970									
03...	1400	9.0	25.5	10.8	600	--	410	8.6	98
NOV.									
02...	1330	81	13.5	5.9	240	4900	200	7.2	79
FEB., 1971									
01...	1130	E1.0	2.0	3.4	440	3100	800	7.2	159
MAY									
03...	1330	11	11.0	14.6	110	130	659	8.7	227

DATE	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
AUG., 1970									
03...	.33	.05	.3	.29	.55	254	260	5	1.3
NOV.									
02...	.81	.64	.4	.40	.22	273	280	17	1.3
FEB., 1971									
01...	1.7	1.3	.8	.53	.38	525	553	13	2.7
MAY									
03...	1.3	.16	.8	.33	.24	403	415	15	2.9

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
AUG., 1970											
03...	35	57	<2	<4	53	<6	<6	2	<6	50	<3

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED RUBI-DIUM (RB) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG., 1970											
03...	5	13	1	<6	2	0	400	<6	<3	3.0	<230

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)
AUG., 1970									
03...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)
AUG., 1970								
03...	.02	.00	.00	.00	.00	.00	.00	.00

04220371 GENESEE RIVER AT SHONGO, N.Y.

LOCATION.--Lat 42°00'54", long 77°53'38", Allegany County, at bridge on State Highway 19, at Shongo.

PERIOD OF RECORD.--Chemical analyses: August 1970 to May 1971 (discontinued).

CHEMICAL ANALYSES, AUGUST 1970 TO MAY 1971

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	ALKA-LINITY AS CACO3 (MG/L)
AUG., 1970									
02...	1100	22	23.0	9.6	139	400	140	8.3	46
NOV.									
01...	1030	82	10.0	10.8	120	480	120	7.3	26
JAN., 1971									
31...	1200	56	.5	10.6	37	350	108	6.4	27
MAY									
02...	1100	261	8.0	10.9	68	430	95	7.9	20

DATE	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
AUG., 1970									
02...	.21	.03	.00	.040	.020	78	85	5	1.0
NOV.									
01...	.28	.06	.6	.030	.000	75	95	13	1.6
JAN., 1971									
31...	.38	.14	1.0	.020	.020	58	86	17	.9
MAY									
02...	.44	.07	.4	.020	.010	67	75	8	1.7

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
AUG., 1970											
02...	17	45	0	<2	14	<2	<2	1	<2	72	<1

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED RUBI-DIUM (RB) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG., 1970											
02...	1	26	0	<20	1	2	42	<2	<1	<.8	<75

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)
AUG., 1970									
02...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)
AUG., 1970								
02...	.00	.00	.00	.00	.00	.00	.00	.00

04222300 GENESEE RIVER NEAR HOUGHTON, N.Y.

LOCATION.--Lat 42°26'14", long 78°07'48", Allegany County, at bridge on town highway between State Highway 19 and Ballard Road and 1.4 miles northeast of Houghton.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	ALKA-LINITY AS CACO3 (MG/L)
NOV. 01...	1430	618	11.5	10.4	250	3700	170	7.8	56
JAN. 31...	1500	E1200	.0	12.5	28	105	160	7.4	61
MAY 02...	1400	951	10.0	11.1	18	38	138	8.3	55

DATE	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
NOV. 01...	.02	.10	.00	.050	.000	113	149	25	1.2
JAN. 31...	.29	.11	.4	.020	.020	122	126	0	.5
MAY 02...	.19	.16	.2	.040	.020	98	114	18	1.6

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, at gaging station at east end of Carrol Street in Churchville, 100 ft downstream from main-line tracks of Penn-Central Transportation Co.

DRAINAGE AREA.--123 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1962, August 1966 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
21...	1430	38	9.8	10	0	165	28	22	3.8	324	0	266
NOV.												
19...	1445	329	7.8	50	0	127	19	15	3.1	241	0	198
DEC.												
22...	1530	461	6.0	40	0	91	17	21	2.6	234	0	192
JAN.												
21...	1430	76	7.2	40	0	190	31	33	2.4	358	0	294
FEB.												
19...	1200	97	8.1	40	0	160	30	27	2.5	334	0	274
MAR.												
23...	1145	399	3.3	40	0	95	19	18	2.4	230	0	189
APR.												
23...	1200	140	.8	20	20	128	24	20	2.7	274	0	225
MAY												
21...	1130	58	2.1	20	0	137	34	21	2.2	292	0	239
JUNE												
22...	1130	53	5.3	10	0	151	34	25	2.3	252	0	207
JULY												
23...	1140	26	3.8	20	0	150	31	20	2.4	261	0	214
AUG.												
25...	1230	24	3.4	30	0	160	37	20	3.6	160	0	131
SEP.												
23...	1230	30	7.6	50	0	160	34	41	3.6	240	0	197

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT.												
21...	228	50	.3	.45	--	.48	.18	2.5	.19	702	670	58
NOV.												
19...	148	33	.3	.60	--	.06	.03	5.3	.12	457	477	42
DEC.												
22...	100	37	.2	.57	--	.04	.04	6.4	.10	407	397	39
JAN.												
21...	235	65	.3	.38	--	.08	.09	8.8	.12	690	749	87
FEB.												
19...	230	55	.3	1.7	--	.18	.22	6.8	.14	743	686	87
MAR.												
23...	110	34	.2	.53	--	.03	.40	5.5	.07	437	402	63
APR.												
23...	180	42	.3	.59	--	.14	.12	4.1	.11	593	538	119
MAY												
21...	220	47	.3	.59	--	.09	.34	2.4	.20	--	611	--
JUNE												
22...	250	51	.3	.00	--	.14	.04	2.7	.14	--	646	--
JULY												
23...	280	37	.4	1.1	1.5	.05	.20	1.2	.68	--	656	--
AUG.												
25...	350	47	.4	.78	1.9	.02	1.2	.9	.25	--	703	--
SEP.												
23...	300	55	.4	.62	1.1	.05	.06	1.9	.21	--	722	--

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT.											
21...	527	261	1030	8.0	12.0	32	9.7	21	460	1220	.04
NOV.											
19...	395	197	701	7.8	5.0	30	12.6	18	510	3800	.04
DEC.											
22...	297	105	683	7.9	1.0	23	11.6	10	--	--	.04
JAN.											
21...	602	308	1150	7.7	.5	10	10.6	12	18600	18000	.04
FEB.											
19...	530	256	1070	7.6	.0	16	9.2	10	--	--	.05
MAR.											
23...	315	127	674	7.9	1.0	17	11.2	10	--	3600	.05
APR.											
23...	418	194	754	8.2	10.0	16	10.2	11	1900	16000	.03
MAY											
21...	482	242	961	8.1	20.0	--	10.9	17	--	--	.05
JUNE											
22...	517	310	964	8.0	22.5	--	8.6	17	3400	27000	.05
JULY											
23...	500	290	981	8.1	23.0	--	9.1	29	2300	16000	.06
AUG.											
25...	550	420	1020	7.8	19.0	--	7.2	14	1540	42000	.05
SEP.											
23...	540	340	1060	7.9	18.0	--	8.2	19	3600	38000	.05

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
NOV.						
19...	--	--	--	--	--	<.5
MAR.						
23...	0	0	40	2	0	<.5

04232000 GENESEE RIVER AT ROCHESTER, N.Y.

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, on right bank at Rochester, 40 ft downstream from plant 5 of Rochester Gas and Electric Corporation and 100 ft upstream from Driving Park Avenue Bridge.

DRAINAGE AREA.--2,457 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1955.
Water temperatures: October 1954 to September 1971. Prior to October 1967, published as "at Driving Park Avenue".

EXTREMES, 1970-71:
Water temperatures: Maximum, 27.0°C Aug. 10, 11; minimum, freezing point Jan. 6-9.

Period of record:
Water temperatures: Maximum, 30.5°C Aug. 18, 1965; minimum, (1954-64, 1966-71) freezing point on many days during most years.

COOPERATION.--Water temperature records furnished by the Rochester Gas and Electric Corporation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT.								
02...	0830	1470	2.3	69	12	27	2.4	152
APR.								
22...	0920	7160	3.1	32	6.9	7.5	1.7	83

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT.									
02...	0	125	87	45	.2	.58	.22	1.8	356
APR.									
22...	0	68	39	14	.1	.16	.28	2.9	159

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
OCT.								
02...	322	60	222	97	576	7.6	18.5	5
APR.								
22...	149	30	108	40	260	7.7	9.0	7

04232000 GENESEE RIVER AT ROCHESTER, N.Y.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT AT 1030)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	13.0	6.0	0.5	1.0	0.5	4.0	8.5	15.5	25.5	24.0	21.5
2	18.5	13.5	6.0	0.5	1.0	1.0	3.5	8.0	16.5	25.0	24.0	23.0
3	17.0	11.5	5.5	1.0	1.5	0.5	4.5	8.0	19.0	24.5	24.0	24.0
4	16.5	11.0	5.0	1.0	1.5	0.5	4.5	9.5	19.5	24.0	23.5	24.0
5	15.5	10.5	4.5	1.0	1.5	0.5	4.5	11.0	18.5	24.0	23.5	24.5
6	15.5	10.0	4.5	0.0	2.0	0.5	4.0	12.0	19.0	25.0	23.5	25.5
7	15.5	9.5	3.0	0.0	2.0	1.0	5.0	13.0	20.0	24.5	24.0	26.5
8	16.0	9.0	1.0	0.0	1.0	1.5	5.5	13.0	21.0	25.5	25.5	27.0
9	16.5	9.0	2.0	0.0	1.0	1.0	6.5	12.0	19.5	26.5	26.0	26.5
10	17.0	9.5	2.0	0.5	1.0	1.5	6.5	13.0	20.0	26.0	27.0	25.0
11	17.0	9.5	1.0	0.5	1.0	1.5	6.5	13.5	20.5	26.5	27.0	25.5
12	19.0	9.5	1.5	0.5	1.5	1.5	7.0	13.5	21.0	26.0	24.5	25.0
13	19.0	10.0	1.5	0.5	1.5	1.5	5.5	13.5	21.5	24.5	25.5	24.5
14	19.0	10.0	3.0	1.5	1.0	2.0	5.0	13.5	20.5	24.0	26.0	24.5
15	19.0	8.5	1.5	1.5	1.5	3.0	6.0	13.5	21.0	23.5	25.5	24.5
16	15.5	7.0	1.0	1.5	1.5	2.0	7.0	14.0	21.5	24.0	23.5	23.5
17	14.0	6.0	1.5	1.0	3.0	3.0	8.0	14.5	21.0	23.0	24.0	23.0
18	13.0	5.5	2.0	1.0	3.0	1.5	8.0	16.0	21.5	23.0	25.0	22.0
19	12.0	6.0	2.0	1.0	1.5	1.5	8.5	18.0	22.0	23.5	25.0	22.0
20	12.0	6.5	1.5	1.0	2.0	1.5	9.0	19.0	23.5	22.0	24.5	22.0
21	11.0	6.5	2.0	1.0	1.5	2.0	9.5	18.5	22.0	23.0	25.5	20.5
22	11.0	6.5	0.5	1.0	1.5	1.5	9.5	16.5	23.5	23.5	25.0	19.5
23	11.0	5.5	0.5	1.0	1.0	1.5	8.5	16.5	23.0	25.5	24.0	19.5
24	11.0	4.5	1.0	1.5	0.5	2.0	9.0	16.5	23.0	25.5	21.5	19.0
25	11.0	5.0	0.5	1.5	1.0	2.0	8.5	16.5	23.0	24.5	21.0	18.0
26	13.0	5.0	1.0	1.5	1.0	2.0	8.0	15.5	23.5	25.5	22.0	17.0
27	13.5	5.5	1.5	1.0	1.5	3.0	8.5	14.5	23.0	24.5	22.0	17.0
28	13.5	5.5	1.5	1.0	0.5	2.0	8.5	13.5	---	24.0	21.0	17.0
29	13.0	5.5	1.0	1.0	---	3.0	8.5	14.0	25.0	24.5	21.0	18.5
30	13.0	6.0	0.5	1.0	---	3.5	8.0	15.0	25.5	24.0	21.0	18.5
31	13.0	---	0.5	0.5	---	3.5	---	15.5	---	24.0	22.0	---
AVERAGE	15.0	8.0	2.0	1.0	1.5	2.0	7.0	14.0	21.0	24.5	24.0	22.5

04235060 CANANDAIGUA OUTLET AT PHELPS, N.Y.

LOCATION.--Lat 42°57'51", long 77°03'28", Ontario County, at bridge on Marbletown Road, 500 ft from East Wayne Road, at Phelps, and 0.5 mile upstream from Flint Creek.

PERIOD OF RECORD.--Chemical analyses: August 1970 to May 1971 (discontinued).

CHEMICAL ANALYSES, AUGUST 1970 TO MAY 1971

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	ALKA-LINITY AS CACO3 (MG/L)
AUG., 1970									
04...	0800	41	19.5	6.5	550	--	800	8.1	156
NOV.									
03...	0930	171	11.0	8.0	910	5100	600	8.0	207
FEB., 1971									
02...	0745	--	.0	11.7	3200	14500	340	7.5	164
MAY									
04...	0900	522	5.0	12.3	310	5800	456	8.2	174

DATE	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
AUG., 1970									
04...	.82	.08	.9	.64	1.4	496	--	13	.8
NOV.									
03...	.32	.11	.7	.22	.14	465	481	13	.9
FEB., 1971									
02...	.52	.36	.8	.15	.10	355	428	31	2.9
MAY									
04...	.80	.22	.8	.070	.050	350	367	17	1.5

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
AUG., 1970											
04...	3	41	<2	<6	74	<10	<10	1	<10	30	<4

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED RUBI-DIUM (RB) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG., 1970											
04...	7	21	<2	<10	<3	<1	1300	<10	<4	<4.0	<380

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)
AUG., 1970									
04...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)
AUG., 1970								
04...	.00	.00	.00	.00	.00	.00	.00	.00

04235505 OWASCO OUTLET BELOW AUBURN, N.Y.

LOCATION.--Lat 42°58'02", long 76°35'58", Cayuga County, at bridge on Division Street Road, 1.0 mile north of Auburn city line and 2.0 miles downstream from gaging station (04235500).

PERIOD OF RECORD.--Chemical analyses: August 1970 to September 1971.

CHEMICAL ANALYSES, AUGUST 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
AUG., 1970								
04...	1200	50	21.0	6.4	--	2000	340	8.1
NOV.								
03...	1130	310	14.0	8.3	730	21000	260	7.8
FEB., 1971								
02...	1100	E300	.0	14.6	85	4300	300	7.9
MAY								
04...	1100	478	5.5	11.0	2700	15000	318	8.1
AUG.								
02...	1000	E55	21.0	3.0	--	--	380	7.6

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
AUG., 1970									
04...	--	--	123	.62	--	--	.18	1.0	.58
NOV.									
03...	--	--	112	.28	--	--	.23	.7	.15
FEB., 1971									
02...	--	--	116	1.2	--	--	.36	.7	.14
MAY									
04...	--	--	139	.70	--	--	.08	.5	.16
AUG.									
02...	156	0	126	.70	3.4	.13	2.7	.2	1.2

DATE	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	LOSS ON IGNI-TION (MG/L)	TOTAL RESI-DUE (MG/L)	RESIDUE ON IGNI-TION (MG/L)	FIXED FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
AUG., 1970								
04...	1.0	203	--	228	--	--	23	2.4
NOV.								
03...	.11	181	--	195	--	--	9	.4
FEB., 1971								
02...	.11	182	--	189	--	--	2	3.9
MAY								
04...	.10	186	--	212	--	--	19	3.4
AUG.								
02...	1.2	239	42	262	198	6	3	5.7

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
AUG., 1970												
04...	8	46	<1	<3	60	<5	<5	3	--	<5	73	<2
AUG., 1971												
02...	16	40	<1	<4	56	<3	<3	4	<3	<5	190	5

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED RUBI-DIUM (RB) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
AUG., 1970												
04...	2	10	<1	<5	<2	0	140	<5	<2	<2.0	<200	--
AUG., 1971												
02...	2	90	1	6	1	0	140	<5	<3	<3.0	<220	<7

CONTINUED NEXT PAGE

04235505 OWASCO OUTLET BELOW AUBURN, N.Y.--Continued

CHEMICAL ANALYSES, AUGUST 1970 TO SEPTEMBER 1971

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	METH-OXY-CHLOR (UG/L)	TOX-APHENE (UG/L)
AUG., 1970												
04...	.00	--	<.01	.00	.01	.00	.00	.00	--	.00	--	--
AUG., 1971												
02...	.00	.00	.01	.00	--	.01	.00	.00	.00	.00	.00	.00

DATE	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG., 1970											
04...	.00	.03	.00	--	.00	.00	.00	.00	.00	.00	--
AUG., 1971											
02...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.								
02...	1.8	7.2	<.1	.5	5.4	<.4	5.8	.5

04236970 SKANEATELES CREEK AT ELBRIDGE, N.Y.

LOCATION.--Lat 43°02'02", long 76°27'09", Onondaga County, at bridge on State Highway 5, 0.1 mile west of State Highway 31C, i Elbridge.

PERIOD OF RECORD.--Chemical analyses: August 1970 to May 1971 (discontinued).

CHEMICAL ANALYSES, AUGUST 1970 TO MAY 1971

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	ALKA-LINITY AS CACO3 (MG/L)
AUG., 1970									
05...	1330	38	19.5	8.6	220	300	475	9.2	182
NOV.									
04...	1330	58	13.0	7.4	130	3000	500	9.1	189
FEB., 1971									
03...	1000	42	.0	11.4	530	4800	400	8.8	174
MAY									
04...	1330	201	7.0	12.1	200	960	391	9.1	153

DATE	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
AUG., 1970									
05...	.00	.17	.5	.35	.58	375	409	33	3.2
NOV.									
04...	.22	.15	.3	.26	.20	420	428	8	.6
FEB., 1971									
03...	.45	.29	.5	.20	.16	384	396	10	1.9
MAY									
04...	.49	.08	.4	.10	.060	274	275	17	3.9

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
AUG., 1970											
05...	19	40	<2	<5	40	<8	<8	9	<8	33	<3

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED RUBI-DIUM (RB) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG., 1970											
05...	3	8	<2	10	<3	0	530	<8	<4	<4.0	<320

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)
AUG., 1970									
05...	.00	.00	.00	.01	.00	.00	.00	.00	.00

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG., 1970									
05...	.00	.00	.00	.00	.00	.00	.00	.00	2.0

04237020 SENECA RIVER (BARGE CANAL) NEAR JORDAN, N.Y.

LOCATION.--Lat 43°06'02", long 76°29'57", at Cayuga - Onondaga county line, at bridge on Jordan Road, 1.0 mile upstream from Cross Lake, and 2.0 miles northwest of Jordan.

PERIOD OF RECORD.--Chemical analyses: August 1970 to May 1971 (discontinued).

CHEMICAL ANALYSES, AUGUST 1970 TO MAY 1971

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	ALKA-LINITY AS CACO3 (MG/L)
AUG., 1970									
05...	1200	--	24.0	7.7	--	--	725	8.2	105
NOV.									
04...	1215	3610	11.0	9.0	175	2600	550	7.8	139
FEB., 1971									
02...	1130	--	.0	8.4	160	3700	260	7.7	169
MAY									
05...	1200	2680	9.0	10.0	130	3000	650	8.2	146

DATE	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
AUG., 1970									
05...	.00	.12	.3	.18	.15	455	502	41	3.0
NOV.									
04...	.38	.18	.5	.14	.040	398	430	8	.7
FEB., 1971									
02...	.60	.48	.8	.12	.10	480	504	13	2.0
MAY									
05...	.34	.13	.6	.11	.040	408	426	20	4.5

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
AUG., 1970											
05...	12	50	<2	<6	30	<10	<10	2	<10	18	<6

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED RUBI-DIUM (RB) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG., 1970											
05...	14	5	<2	<10	<3	<1	650	<10	<6	<6.0	<600

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)
AUG., 1970									
05...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG., 1970									
05...	.00	.00	.00	.00	.00	.00	.00	.00	6.0

04237500 SENECA RIVER AT BALDWINSVILLE, N.Y.

LOCATION.--Lat 43°09'26", long 76°19'55", Onondaga County, at Erie (Barge) Canal lock 24 in Baldwinsville, 350 ft upstream from gaging station.

DRAINAGE AREA.--3,136 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958.
Water temperatures: October 1957 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 25.0°C July 1, 11, Aug. 11, 21.

Period of record:
Water temperatures: Maximum, 28.0°C July 24, 1964; minimum, freezing point on many days during winter periods.

REMARKS.--Stream frozen Dec. 25 to Mar. 17. No records on weekends December to April.

COOPERATION.--Water temperature record furnished by the New York State Department of Transportation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
MAR.								
23...	1400	12800	3.0	54	11	35	4.6	148

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
MAR.									
23...	0	121	93	63	.1	.30	.17	4.6	368

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
MAR.								
23...	302	71	180	59	534	7.7	2.0	5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 to SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	11.5	5.5	---	---	---	3.5	---	17.0	25.0	24.0	21.0
2	16.5	11.5	6.0	---	---	---	4.5	---	16.5	24.5	24.0	21.0
3	18.5	11.0	6.0	---	---	---	---	9.0	16.5	24.0	24.0	21.5
4	18.0	11.0	6.5	---	---	---	---	9.0	16.5	24.0	23.5	22.0
5	18.0	11.0	5.5	---	---	---	4.0	9.0	19.5	24.0	23.0	23.5
6	18.5	10.5	4.5	---	---	---	4.5	10.0	19.0	24.0	23.0	23.5
7	16.5	11.0	3.5	---	---	---	5.0	10.5	19.0	24.5	23.5	24.0
8	19.0	10.0	2.0	---	---	---	5.0	---	20.0	24.5	24.5	24.0
9	19.0	9.5	3.0	---	---	---	5.0	---	20.0	24.5	24.5	24.0
10	17.0	9.5	3.0	---	---	---	---	10.5	19.5	24.5	24.5	24.5
11	17.0	10.0	2.0	---	---	---	---	11.5	20.0	25.0	25.0	24.5
12	16.5	10.0	---	---	---	---	6.5	12.0	21.0	24.5	23.5	24.0
13	16.5	10.0	---	---	---	---	7.0	12.0	22.0	24.0	23.0	24.0
14	17.0	9.5	1.5	---	---	---	8.0	13.0	22.0	23.5	23.5	23.5
15	16.5	9.5	2.0	---	---	---	8.0	11.0	21.5	23.0	24.5	23.5
16	16.0	9.0	1.5	---	---	---	8.5	14.0	21.5	23.0	24.0	23.5
17	15.0	8.5	0.5	---	---	---	---	14.5	22.0	24.0	23.0	22.0
18	14.0	8.0	1.5	---	---	1.5	8.5	14.5	21.0	23.0	23.0	23.5
19	14.0	7.0	---	---	---	1.5	9.0	15.5	23.0	23.0	23.5	23.0
20	13.0	8.0	---	---	---	---	9.5	16.5	24.0	21.5	24.5	21.5
21	13.0	8.0	2.0	---	---	---	9.5	16.5	23.5	21.5	25.0	20.5
22	13.5	8.0	1.5	---	---	1.5	9.0	19.5	23.0	22.0	23.5	19.5
23	13.5	7.0	1.0	---	---	1.5	9.0	18.0	22.0	23.5	23.0	19.0
24	14.0	6.0	1.0	---	---	1.5	---	16.5	23.0	24.5	21.5	18.5
25	14.0	5.0	---	---	---	2.0	---	16.5	23.0	24.0	21.0	19.0
26	13.5	5.0	---	---	---	2.0	9.0	16.5	23.0	24.0	20.5	18.5
27	13.0	5.0	---	---	---	---	8.5	15.5	24.0	23.5	20.0	18.5
28	12.0	6.0	---	---	---	---	9.0	14.5	24.0	23.0	20.0	18.5
29	12.0	6.0	---	---	---	3.0	8.5	16.5	24.0	23.5	20.0	18.5
30	11.5	6.0	---	---	---	3.5	9.5	17.0	24.0	23.5	20.5	19.0
31	11.5	---	---	---	---	3.0	---	18.0	---	23.5	21.0	---
AVERAGE	15.5	8.5	---	---	---	---	---	14.0	21.0	23.5	23.0	21.5

04249062 LITTLE SALMON RIVER BELOW TEXAS, N.Y.

LOCATION.--Lat 43°30'45", long 76°14'53", Oswego County, at bridge on State Highway 104B, 0.3 mile east of Texas, and 1.2 miles west of State Highway 3.

PERIOD OF RECORD.--Chemical analysis: August 1970 to May 1971 (discontinued).

CHEMICAL ANALYSES, AUGUST 1970 TO MAY 1971

DATE	TIME	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	ALKALINITY AS CACO3 (MG/L)	ORGANIC NITROGEN (N) (MG/L)
AUG., 1970									
06...	1122	22.0	6.7	--	E50000	175	7.3	64	.00
NOV.									
03...	1030	9.5	9.8	--	770	130	8.3	49	.34
FEB., 1971									
08...	1530	.5	10.8	--	2500	77	8.2	43	.86
MAY									
03...	1230	8.5	10.4	690	4100	74	7.3	21	.75

DATE	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED-PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
AUG., 1970								
06...	.14	.3	.060	.11	96	109	14	1.0
NOV.								
03...	.16	.00	.050	.020	99	105	3	.3
FEB., 1971								
08...	.23	.2	.030	.030	97	398	298	.7
MAY								
03...	.15	.1	.040	.020	60	68	15	1.5

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)
AUG., 1970											
06...	21	53	0	<2	19	<3	<3	2	<2	95	2

DATE	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED RUBIDIUM (RB) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG., 1970											
06...	4	30	0	1	1	0	100	<3	1	<1.0	<100

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)
AUG., 1970									
06...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG., 1970									
06...	.00	.00	.00	.00	.00	.00	.00	.00	9.0

04250504 SALMON RIVER BELOW PULASKI, N.Y.

LOCATION.--Lat 43°34'11", long 76°11'15", Oswego County, at bridge on State Highway 3, at Port Ontario, 0.4 mile upstream from mouth, and 2.1 miles west of Pulaski.

PERIOD OF RECORD.--Chemical analyses: July to September 1971.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	NITRITE (N) (MG/L)
JULY 16...	0940	20.0	8.6	75	6.8	33	0	27	.18	.40	.000
AUG. 18...	1130	21.0	9.8	93	7.5	43	0	35	.22	.55	.010
SEP. 27...	1700	17.0	11.4	67	7.0	32	0	26	.44	.54	.000

DATE	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED-PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	LOSS ON IGNITION (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	FIXED FILTRABLE RESIDUE (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
JULY 16...	.02	.2	.020	.010	60	34	71	37	--	10	.5
AUG. 18...	.12	.2	.020	.020	60	23	59	40	6	12	--
SEP. 27...	.00	.1	.020	.010	52	--	60	--	--	7	1.4

PESTICIDE ANALYSES

DATE	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	TOXAPHENE (UG/L)
JULY 16...	.00	--	.00	.00	.00	.00	.00	.00	--	.00	--
AUG. 18...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP. 27...	.00	--	.00	.00	.00	.00	.00	.00	--	.00	--

DATE	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JULY 16...	--	--	--	.00	.00	.00	.00	.00	.00	.00	6.0
AUG. 18...	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	3.0
SEP. 27...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.0

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, N.Y.

LOCATION.--Lat 43°44'50", long 75°20'05", Lewis County, temperature recorder at gaging station on right bank at downstream side of bridge on Donnattsburg Road at Donnattsburg, 1.2 miles downstream from Chase Lake Outlet, 4.2 miles northeast of Glenfield, and 5 miles upstream from mouth.

DRAINAGE AREA.--91.7 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1959 to September 1961, October 1963 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 26.0°C June 20, 30; minimum, freezing point on many days during winter pericd.

Period of record:
Water temperatures (1959-61, 1963-71): Maximum (1959-61, 1963-69, 71), 26.5°C July 24, 1961; minimum, freezing point on many days during winter periods.

REMARKS.--No records available September 26-30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.5	8.0	6.5	1.5	1.0	0.0	0.0	0.5	0.5	0.0	0.0
2	11.0	9.5	9.0	8.0	2.0	1.0	0.0	0.0	0.5	0.5	0.5	0.0
3	12.0	11.0	8.5	7.0	2.0	1.5	0.0	0.0	0.5	0.5	0.5	0.0
4	11.5	10.5	8.0	7.0	1.5	0.0	0.0	0.0	0.5	0.0	0.5	0.5
5	10.5	10.0	7.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
6	10.0	9.0	5.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0
7	12.0	10.0	5.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	13.0	11.5	5.0	3.0	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0
9	13.5	11.5	3.0	1.5	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.5
10	14.5	13.0	5.5	3.0	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.5
11	14.5	13.5	7.0	5.5	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0
12	13.5	13.5	8.0	7.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0
13	14.0	13.5	8.0	7.0	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.0
14	15.0	14.0	7.0	5.5	0.0	0.0	0.5	0.0	0.0	0.0	1.0	0.0
15	15.0	13.0	5.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5
16	13.0	9.0	5.0	4.0	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.5
17	9.0	6.0	4.0	3.5	0.5	0.0	0.5	0.5	0.0	0.0	1.0	0.5
18	6.0	5.0	3.5	3.5	0.0	0.0	0.5	0.5	0.0	0.0	1.0	0.5
19	6.0	5.0	3.5	3.0	0.0	0.0	0.5	0.5	0.0	0.0	1.0	0.5
20	5.5	4.0	3.5	2.0	0.0	0.0	0.5	0.5	0.0	0.0	0.5	0.5
21	6.5	5.5	3.5	3.5	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5
22	8.5	6.5	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
23	9.0	8.5	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
24	9.5	9.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
25	9.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
26	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
27	9.0	8.5	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.0	0.5
28	8.5	6.5	1.0	0.5	0.0	0.0	0.5	0.5	0.0	0.0	1.0	0.5
29	6.5	5.0	1.0	1.0	0.0	0.0	0.5	0.0	---	---	1.0	0.5
30	6.0	5.0	1.5	1.0	0.0	0.0	0.0	0.0	---	---	1.0	0.5
31	6.5	6.0	---	---	0.0	0.0	0.5	0.0	---	---	1.5	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.5	0.5	4.0	2.0	19.0	14.5	24.5	21.5	20.0	16.5	17.0	12.0
2	1.5	0.5	5.0	4.0	16.0	14.0	23.0	19.0	21.0	18.5	17.0	13.0
3	1.0	0.5	5.0	3.5	15.0	14.5	22.0	16.5	20.0	18.5	19.0	15.0
4	1.0	0.5	3.5	3.0	18.0	14.0	23.0	16.0	18.5	16.5	19.0	16.0
5	1.5	0.5	5.5	3.0	19.0	14.5	23.5	18.5	19.0	15.0	20.0	16.5
6	2.0	0.5	6.5	4.5	19.5	14.5	22.0	20.0	20.0	15.5	20.5	18.0
7	3.5	0.5	8.5	6.0	23.0	17.0	23.0	18.5	20.0	16.0	20.0	18.5
8	3.0	0.5	8.5	5.5	22.0	20.0	23.0	18.0	21.5	16.0	21.0	18.0
9	3.0	0.5	5.5	5.0	21.0	18.0	23.5	20.0	22.0	17.0	20.5	18.5
10	2.0	0.5	8.5	5.0	20.5	15.5	22.0	17.0	21.0	18.5	19.0	14.5
11	2.0	0.5	9.5	8.0	20.5	15.0	20.5	17.0	20.5	19.0	18.5	16.0
12	3.5	1.0	10.0	9.5	22.0	17.0	20.5	15.0	19.0	15.5	18.5	17.0
13	1.5	1.0	9.5	7.0	23.0	19.5	19.0	15.5	20.0	14.5	17.0	16.5
14	1.0	0.5	9.0	6.5	23.0	18.5	18.5	16.0	21.5	16.5	17.0	16.0
15	2.0	1.0	11.0	8.0	20.5	18.5	20.5	14.5	20.5	16.5	19.0	16.5
16	1.0	1.0	13.0	10.5	23.0	17.0	19.0	16.0	19.0	14.0	18.5	16.0
17	4.0	1.0	14.5	11.5	24.5	18.0	18.0	16.5	19.5	14.5	16.5	14.5
18	4.5	1.0	15.0	12.0	24.5	20.0	19.5	14.5	20.0	15.0	15.5	14.5
19	4.5	1.0	18.5	14.0	25.0	21.5	16.5	15.0	21.0	16.5	14.5	11.[illegible]
20	3.5	1.0	18.5	16.5	26.0	21.0	18.0	14.5	20.0	17.0	14.0	13.0
21	2.0	1.5	18.0	14.5	24.5	20.5	20.0	14.5	18.0	15.5	14.0	13.0
22	1.5	1.0	15.5	13.5	24.0	19.0	20.5	15.0	18.0	14.5	13.0	10.5
23	2.0	1.0	15.0	11.5	23.5	19.0	21.0	16.5	17.0	13.5	13.0	10.5
24	2.0	1.5	15.0	12.0	23.5	19.0	19.0	17.0	15.0	11.0	12.0	10.0
25	1.5	1.0	16.0	14.5	23.0	19.0	20.0	16.5	13.5	11.0	11.5	9.5
26	3.0	1.5	15.0	12.0	21.5	18.0	21.5	16.5	16.5	12.0	---	---
27	3.5	2.0	12.0	11.0	22.0	18.5	20.5	18.5	16.0	14.5	---	---
28	3.5	2.0	14.0	10.5	23.0	19.0	19.0	15.5	16.5	14.5	---	---
29	3.0	3.0	16.5	11.5	24.5	20.0	18.5	17.0	18.5	15.0	---	---
30	3.5	2.0	19.0	14.0	26.0	21.0	20.5	15.5	18.0	15.0	---	---
31	---	---	19.5	15.5	---	---	19.0	18.0	17.0	14.5	---	---

04257150 BEAVER RIVER AT MOSHIER FALLS, N.Y.

LOCATION.--Lat 43°52'20", long 75°08'10", Herkimer County, at the Niagara-Mohawk Moshier Falls Power Station, at mouth of Sunday Creek and 2.2 miles east of Number Four.

DRAINAGE AREA.--184 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1955 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 21.0°C Aug. 10, 19; minimum, 0.5°C on Jan. 13, 17, Mar. 27-28, 30-31, Apr. 1-4, 6.

Period of record:
Water temperatures: Maximum, 23.5°C Sept. 10, 1959; minimum, freezing point on Jan. 1, 2, 1969.

COOPERATION.--Water temperature record furnished by the Niagara Mohawk Power Corporation.

REMARKS.--No record available March 4, 5.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT BETWEEN 0900 AND 1300)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	9.5	3.0	1.0	1.0	1.0	0.5	1.5	10.5	18.5	20.0	18.5
2	15.0	10.0	4.0	1.0	1.0	1.0	0.5	2.0	10.5	18.0	20.5	18.0
3	14.5	10.0	3.0	1.0	1.0	1.0	0.5	2.0	11.5	16.0	20.5	18.0
4	13.0	9.5	3.5	1.0	1.0	---	0.5	1.5	12.0	15.0	20.0	17.0
5	13.5	9.0	1.5	1.0	1.0	---	1.0	2.0	13.0	16.0	20.0	18.5
6	13.5	8.5	2.0	1.0	1.0	1.0	0.5	2.0	13.5	18.0	20.0	18.5
7	13.5	8.5	2.0	1.0	1.0	1.0	1.0	2.0	14.0	19.0	20.0	19.5
8	14.0	8.0	3.0	1.0	1.5	1.0	1.0	3.0	15.0	19.0	20.0	19.5
9	14.0	7.0	3.0	1.0	1.5	1.0	1.0	1.5	15.0	19.0	20.5	20.0
10	14.0	8.0	2.0	1.0	1.5	1.5	1.0	3.0	14.5	19.0	21.0	19.5
11	15.0	8.5	1.5	1.0	1.5	1.5	1.0	3.5	14.0	19.5	20.0	20.0
12	14.5	9.5	1.5	1.0	1.5	1.0	1.0	4.0	15.0	19.5	20.5	19.0
13	14.5	9.0	1.5	0.5	1.0	1.0	1.5	3.5	15.5	19.5	20.5	19.5
14	14.0	8.0	1.5	1.0	1.0	1.5	1.0	3.5	15.5	19.5	20.5	19.5
15	14.5	7.0	1.0	1.0	1.0	1.0	1.0	3.5	15.5	19.0	19.0	20.0
16	13.5	6.0	1.0	1.0	1.0	1.0	1.0	3.5	15.5	19.0	19.0	20.0
17	12.0	5.5	1.0	0.5	1.5	1.0	1.0	4.0	15.0	19.0	20.5	19.5
18	10.5	5.5	1.0	1.0	1.5	1.0	1.5	5.5	16.0	19.0	20.5	19.0
19	11.0	5.5	1.5	1.0	1.0	1.0	1.5	6.5	16.5	19.0	21.0	16.5
20	11.5	5.5	1.0	1.0	1.0	1.0	1.0	11.0	17.0	19.0	20.5	17.0
21	11.5	6.5	1.5	1.0	1.0	1.0	1.0	11.0	17.0	19.0	20.0	16.5
22	11.5	6.0	1.0	1.0	1.0	1.0	1.5	11.0	17.0	19.0	20.5	16.5
23	12.0	5.0	1.0	1.0	1.0	1.0	1.0	9.0	16.5	19.5	20.0	17.0
24	11.5	4.5	1.5	1.0	1.0	1.0	1.5	9.5	16.5	19.5	19.5	16.5
25	10.0	3.5	1.5	1.0	1.0	1.0	1.5	9.0	16.5	19.5	19.0	16.5
26	11.5	3.5	1.0	1.0	1.0	1.0	1.0	9.0	16.5	20.0	19.0	15.5
27	12.0	4.0	1.0	1.0	1.0	0.5	1.0	9.0	16.5	20.5	19.0	16.5
28	11.0	4.0	1.0	1.0	1.0	0.5	1.5	9.0	17.0	17.0	18.5	16.0
29	10.5	3.5	1.0	1.0	---	1.0	1.0	10.0	17.0	19.5	17.0	16.5
30	11.0	4.5	1.5	1.0	---	0.5	1.0	10.0	18.0	19.5	19.0	16.5
31	10.5	---	1.0	1.0	---	0.5	---	10.5	---	18.5	18.0	---
AVERAGE	12.5	6.5	2.0	1.0	1.5	1.0	1.0	5.5	15.0	18.5	20.0	18.0

04259500 BLACK RIVER AT BLACK RIVER, N.Y.

LOCATION.--Lat 44°00'13", long 75°48'23", Jefferson County, at bridge on State Highway 3, 0.5 mile west of Middleton Road, 0.8 mile southwest of Black River and 7.2 miles upstream from gaging station (04260500) at Watertown.

DRAINAGE AREA.--1,876 sq mi at gaging station.

PERIOD OF RECORD.--Chemical analyses: August 1969 to May 1971 (discontinued).

CHEMICAL ANALYSES, OCTOBER 1970 TO MAY 1971

DATE	TIME	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	ALKALINITY AS CACO3 (MG/L)	ORGANIC NITROGEN (N) (MG/L)
NOV.									
03...	1300	--	8.4	--	4200	80	8.1	28	.47
FEB.									
09...	0830	.0	12.8	--	900	97	8.0	27	.29
MAY									
04...	0645	6.0	12.1	270	1300	73	7.9	21	.46

DATE	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
NOV.								
03...	.14	.1	.020	.000	82	90	12	.6
FEB.								
09...	.25	.4	.020	.010	50	86	20	1.7
MAY								
04...	.11	.6	.040	.010	56	78	28	1.3

04259980 BLACK RIVER AT HUNTINGTONVILLE, N.Y.

LOCATION.--Lat 43°59'01", long 75°51'43", Jefferson County, at Watertown water department dosing station at middle of right channel at Huntington Island, 0.5 mile north of Huntingtonville, and 3.8 mile upstream of gaging station at Watertown.

DRAINAGE AREA.--1,876 sq mi at Watertown gage.

PERIOD OF RECORD.--Water temperatures: April 1969 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 24.0°C July 8-10; minimum 0.5°C on many days during winter period.

Period of Record:
Water temperatures: Maximum, 25.5°C July 30, 31, 1970; minimum, 0.5°C on many days during winter periods.

COOPERATION.--Water temperature record furnished by the City of Watertown.

TEMPERATURE (°C) OF WATER, OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT AT APPROXIMATELY 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	---	2.0	0.5	0.5	1.0	0.5	6.0	16.0	23.5	---	19.0
2	14.5	10.0	4.0	0.5	0.5	1.0	1.0	---	16.0	23.5	23.0	18.0
3	13.5	10.0	4.5	0.5	0.5	0.5	1.0	7.0	16.0	23.5	23.0	19.0
4	---	9.0	4.5	1.0	0.5	0.5	---	7.0	15.5	---	21.5	21.0
5	12.0	8.5	1.0	0.5	0.5	0.5	1.0	7.0	16.5	23.5	21.5	23.0
6	13.0	6.5	---	0.5	0.5	0.5	1.0	7.0	---	23.5	21.5	23.0
7	13.0	7.0	1.5	0.5	0.5	---	1.0	7.0	18.0	23.5	21.5	23.5
8	13.5	---	1.0	0.5	0.5	0.5	1.0	8.0	19.0	24.0	---	22.0
9	14.0	6.0	1.0	0.5	0.5	0.5	1.0	---	19.0	24.0	23.0	22.0
10	13.5	6.5	1.0	0.5	0.5	0.5	1.5	9.5	19.0	24.0	23.0	21.5
11	---	8.5	0.5	0.5	0.5	0.5	---	9.5	19.0	---	22.0	21.5
12	15.0	8.5	0.5	0.5	0.5	0.5	2.0	11.5	19.5	23.5	21.5	---
13	15.0	8.5	---	0.5	0.5	0.5	3.5	10.5	---	23.0	21.0	22.0
14	15.5	8.0	1.0	0.5	0.5	---	3.5	10.5	20.5	22.0	21.0	21.5
15	16.0	---	0.5	0.5	0.5	1.0	3.5	10.5	20.5	21.5	---	21.5
16	11.0	5.5	0.5	0.5	0.5	0.5	3.5	---	20.5	21.5	19.5	21.0
17	10.5	5.5	0.5	---	0.5	0.5	3.5	11.5	20.5	21.0	20.0	20.0
18	---	5.5	0.5	0.5	0.5	0.5	---	11.5	21.0	---	21.0	20.0
19	10.0	5.5	0.5	0.5	0.5	0.5	5.0	13.0	22.0	21.0	22.0	---
20	9.5	5.5	---	0.5	0.5	0.5	6.0	14.5	---	20.5	22.0	18.0
21	9.5	5.5	0.5	0.5	---	---	6.5	15.5	23.5	21.0	21.5	18.0
22	10.0	---	0.5	0.5	0.5	1.0	6.5	15.0	22.0	22.0	21.5	16.5
23	10.0	4.5	0.5	0.5	0.5	0.5	6.0	---	22.0	22.0	18.5	16.0
24	11.5	1.5	0.5	0.5	0.5	0.5	6.5	14.0	22.0	23.0	19.0	16.0
25	---	2.0	---	0.5	0.5	0.5	---	14.5	22.0	---	18.5	15.5
26	10.5	2.0	0.5	0.5	0.5	0.5	6.0	14.5	22.0	23.5	18.5	---
27	10.5	2.0	---	0.5	0.5	0.5	5.0	13.0	---	23.0	18.5	14.5
28	10.0	3.0	0.5	0.5	---	---	6.0	13.0	22.0	22.0	19.0	14.5
29	9.5	---	0.5	0.5	---	0.5	5.5	14.0	21.5	22.0	---	15.5
30	9.0	3.5	0.5	0.5	---	1.0	5.5	14.5	23.0	21.5	19.5	16.0
31	9.5	---	0.5	0.5	---	1.0	---	15.5	---	21.5	18.5	---
AVERAGE	12.0	6.0	1.0	0.5	0.5	0.5	3.5	11.5	20.0	22.5	21.0	19.5

04260100 BLACK RIVER AT STATE HIGHWAY 3 AT WATERTOWN, N.Y.

LOCATION (revised).--Lat 43°58'28", Long 75°52'34", Jefferson County, at power plant 0.2 mile downstream from bridge on State Highway 3 (Eastern Boulevard) in Watertown and 3.7 miles upstream from gaging station (04260500).

DRAINAGE AREA.--1,876 sq mi at gaging station.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
19...	1045	5.1	220	30	13	1.4	1.5	.6	32	0
NOV.										
16...	1045	5.8	160	0	16	1.8	1.9	.7	44	0
DEC.										
28...	0930	6.2	170	0	16	1.5	1.9	.5	41	0
JAN.										
25...	0930	6.8	310	0	14	1.3	2.6	.6	37	0
FEB.										
22...	0930	6.6	250	0	11	1.3	2.1	.5	25	0
MAR.										
22...	0930	5.6	220	0	14	1.0	2.2	.8	42	0
APR.										
19...	1000	4.4	150	0	14	1.0	1.4	.7	36	0
MAY										
17...	0930	3.0	80	0	7.5	.7	.9	.5	15	0
JUNE										
14...	0945	4.8	270	0	11	1.1	3.7	.7	30	0
JULY										
12...	0930	5.5	300	0	14	1.4	5.8	.8	40	0
AUG.										
09...	0920	4.8	220	0	9.0	.9	2.0	.5	20	0
SEP.										
07...	0930	5.1	280	0	10	1.1	2.8	.7	28	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
19...	26	13	1.8	.1	.22	--	.03	.22	.3	.07
NOV.										
16...	36	13	5.0	.1	.17	--	.02	.19	.6	.10
DEC.										
28...	34	13	2.5	.0	.47	--	.04	.11	1.6	.04
JAN.										
25...	30	13	2.4	.1	.30	--	.04	.10	1.5	.07
FEB.										
22...	21	14	2.1	.2	.38	--	.03	.14	2.7	.06
MAR.										
22...	34	9.6	2.5	.0	.53	--	.02	.18	2.7	.07
APR.										
19...	30	9.4	1.6	.0	.40	--	.03	.06	3.5	.14
MAY										
17...	12	7.2	1.1	.0	.87	--	.01	.08	2.1	.04
JUNE										
14...	25	12	1.6	.0	.37	--	.03	.19	.7	.05
JULY										
12...	33	18	4.5	.1	.58	.74	.03	.06	.4	.15
AUG.										
09...	16	11	1.5	.1	.32	.54	.03	.21	.2	.09
SEP.										
07...	23	12	1.5	.1	.69	1.0	.03	.32	.4	.03

04260100 BLACK RIVER AT STATE HIGHWAY 3 AT WATERTOWN, N.Y.—Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 19...	59	53	27	38	12	84	7.0	45	28	.02
NOV. 16...	85	67	40	48	12	115	7.2	30	23	.07
DEC. 28...	55	64	13	46	12	102	7.2	24	24	.04
JAN. 25...	76	42	16	40	10	98	7.1	25	24	.04
FEB. 22...	65	53	30	81	60	79	6.9	28	22	.04
MAR. 22...	75	59	14	39	5	97	7.4	22	18	.04
APR. 19...	88	54	20	39	10	91	7.3	24	11	.04
MAY 17...	--	31	--	21	9	48	7.0	--	12	.03
JUNE 14...	--	51	--	31	7	85	7.0	--	22	.04
JULY 12...	--	71	--	41	8	111	7.0	--	40	.06
AUG. 09...	--	41	--	26	10	61	7.1	--	21	.03
SEP. 07...	--	49	--	29	7	86	7.0	--	16	.06

04260500 BLACK RIVER AT WATERTOWN, N.Y.

LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, at gaging station at Vanduzee Street Bridge in Watertown, and 3.5 miles upstream from Philomel Creek.

DRAINAGE AREA.--1,876 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, August 1965 to September 1971.
Water temperatures: October 1955 to September 1959, July 1962 to March 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
08...	0910	4650	5.3	--	0	11	1.2	1.6	.5	28	0
NOV.											
09...	1030	2150	5.5	200	0	14	1.6	2.8	.5	37	0
DEC.											
03...	1020	4830	5.7	160	0	14	1.4	2.1	.5	36	0
JAN.											
22...	1130	2310	6.9	260	0	15	1.8	2.3	.6	40	0
FEB.											
22...	1600	3800	6.7	270	0	11	1.3	2.6	.5	28	0
MAR.											
29...	1645	3980	6.2	370	0	17	1.3	3.8	.8	45	0
APR.											
26...	1000	12600	3.9	90	0	12	.9	1.4	.6	31	0
MAY											
07...	0950	18800	3.5	--	--	8.9	.8	1.1	.5	21	0
25...	0730	6840	3.3	70	0	8.5	.8	2.0	.5	20	0
JUNE											
22...	1415	1850	4.9	310	70	15	1.3	6.5	.9	40	0
JULY											
28...	1100	2530	5.4	270	0	12	1.4	4.0	.9	33	0
AUG.											
31...	1100	4410	6.2	320	0	12	1.3	3.8	.7	37	0
SEP.											
24...	1630	5420	5.0	--	--	9.0	.9	1.7	.5	20	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.											
08...	23	13	1.7	.0	.01	--	.03	.30	.2	.11	66
NOV.											
09...	30	14	2.4	.0	.20	--	.02	.12	.5	.07	76
DEC.											
03...	30	11	2.4	.1	.45	--	.04	.19	1.4	.14	68
JAN.											
22...	33	14	3.4	.1	.37	--	.04	.12	1.3	.06	79
FEB.											
22...	23	15	2.0	.1	.38	--	.03	.12	1.8	.09	78
MAR.											
29...	37	12	3.8	.0	.72	--	.03	.08	2.1	.10	100
APR.											
26...	25	8.0	1.2	.1	.29	--	.01	.02	3.1	.13	57
MAY											
07...	17	8.1	1.3	.1	--	--	.01	.11	2.4	--	43
25...	16	9.7	1.2	.0	.35	--	.03	.15	1.2	.06	--
JUNE											
22...	33	20	4.0	.0	.78	--	.03	.17	.5	.08	--
JULY											
28...	27	12	2.2	.1	2.5	2.7	.03	.22	.4	.18	--
AUG.											
31...	30	13	1.9	.1	--	--	.01	.13	.4	.12	--
SEP.											
24...	16	9.8	1.0	.1	--	--	--	--	.4	--	--

04260500 BLACK RIVER AT WATERTOWN, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.											
08...	49	24	33	10	78	6.9	12.5	37	9.5	24	.02
NOV.											
09...	60	20	42	12	96	7.1	8.0	10	9.8	25	.04
DEC.											
03...	57	7	41	11	96	7.3	4.5	27	9.9	24	.04
JAN.											
22...	65	13	44	12	106	7.0	--	27	--	32	.06
FEB.											
22...	55	31	33	10	84	7.2	.0	27	15.1	10	.04
MAR.											
29...	70	31	47	11	115	7.3	--	32	--	36	.04
APR.											
26...	46	21	33	8	80	7.5	4.0	20	13.2	20	.02
MAY											
07...	37	12	25	8	61	7.3	8.5	25	--	--	--
25...	37	--	24	8	71	7.0	14.5	--	10.7	18	.03
JUNE											
22...	73	--	42	10	121	7.2	24.5	--	8.1	47	.05
JULY											
28...	58	--	36	9	93	7.2	23.0	--	9.4	17	.03
AUG.											
31...	58	--	35	5	93	7.3	23.0	--	11.4	25	.05
SEP.											
24...	38	--	26	10	58	7.0	--	--	--	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.											
08...	0	0	4	0	--	--	0	--	<.5	<.5	0
MAR.											
29...	10	--	--	--	0	450	10	100	<.5	--	--

04260712 ST. LAWRENCE RIVER AT CAPE VINCENT, N.Y.

LOCATION.--Lat 44°07'48", Long 76°20'10", Jefferson County, at end of U.S. Coast Guard Station dock in Cape Vincent and approximately 1,500 ft downstream from village water intake.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
19...	0845	.3	0	0	41	6.5	12	1.1	110	0
NOV.										
16...	0845	.3	0	0	40	6.3	12	1.2	114	0
MAY										
17...	1415	.3	10	0	40	6.8	10	1.3	96	4
JUNE										
14...	1345	.0	10	0	38	7.4	13	1.5	108	0
JULY										
13...	0915	.1	--	0	38	7.5	14	1.7	106	0
AUG.										
10...	0910	.1	10	0	40	8.0	14	1.6	112	0
SEP.										
08...	0915	.1	10	0	38	7.9	13	1.6	110	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
19...	90	36	27	.2	.80	--	.14	.09	.1	.06
NOV.										
16...	94	28	25	.2	.16	--	.02	.08	.9	.07
MAY										
17...	85	24	23	.1	.60	--	.02	.14	.5	.06
JUNE										
14...	89	26	27	.2	.25	--	.20	.05	.5	.07
JULY										
13...	87	28	28	.1	.28	.38	.03	.13	.0	.06
AUG.										
10...	92	28	28	.1	.23	.32	.02	.12	.0	.06
SEP.										
08...	90	26	29	.1	.46	.62	.00	.21	.0	.00

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
19...	188	179	28	129	39	323	8.1	3	6	.01
NOV.										
16...	184	170	24	126	32	331	8.0	0	0	.01
MAY										
17...	--	162	--	128	42	291	9.4	--	8	.03
JUNE										
14...	--	167	--	125	37	310	8.5	--	8	.02
JULY										
13...	--	170	--	130	39	318	8.1	--	10	.02
AUG.										
10...	--	175	--	130	41	318	8.0	--	7	.02
SEP.										
08...	--	171	--	130	37	315	8.1	--	6	.02

04260800 ST. LAWRENCE RIVER AT ALEXANDRIA BAY, N.Y.

LOCATION.--Lat 44°20'15", long 75°55'15", Jefferson County, off pier behind Post Office, at the Corps of Engineers' river-stage gage at Alexandria Bay.

DRAINAGE AREA.--293,000 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: October 1955 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 21.0°C Aug. 4-5, 8-23; minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum, 24.0°C on several days during August and September 1959; minimum, freezing point on many days during winter periods.

REMARKS.--Stream frozen Dec. 17-20, Dec. 22 to Apr. 11.

COOPERATION.--Water temperature record furnished by Douglas Manning.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(TWICE-DAILY MEASUREMENTS AT 0800 AND 1600)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	18.0	18.0	12.0	12.0	5.5	5.0	---	---	---	---	---	---
2	18.0	18.0	12.0	12.0	5.0	6.5	---	---	---	---	---	---
3	17.0	17.0	11.5	12.0	6.5	6.5	---	---	---	---	---	---
4	16.5	16.5	12.0	12.0	5.5	5.5	---	---	---	---	---	---
5	16.5	16.5	12.0	12.0	4.5	4.5	---	---	---	---	---	---
6	16.5	16.5	11.5	11.5	4.5	4.0	---	---	---	---	---	---
7	16.5	16.5	11.0	11.0	3.5	3.5	---	---	---	---	---	---
8	16.5	16.5	11.0	11.0	4.0	3.5	---	---	---	---	---	---
9	16.5	16.5	10.0	10.0	3.0	3.0	---	---	---	---	---	---
10	16.5	16.5	10.0	10.0	3.0	3.0	---	---	---	---	---	---
11	16.5	16.5	10.0	10.0	2.0	2.0	---	---	---	---	---	---
12	16.5	16.5	11.0	10.5	1.5	1.5	---	---	---	---	---	---
13	16.5	16.5	10.0	10.0	1.5	1.5	---	---	---	---	---	---
14	16.5	16.5	10.0	10.0	1.5	1.5	---	---	---	---	---	---
15	16.5	16.5	10.0	10.0	1.0	1.0	---	---	---	---	---	---
16	16.5	16.0	10.0	9.5	1.0	1.0	---	---	---	---	---	---
17	15.5	15.5	9.0	9.0	---	---	---	---	---	---	---	---
18	15.5	15.5	8.5	8.5	---	---	---	---	---	---	---	---
19	15.5	15.5	8.5	8.5	---	---	---	---	---	---	---	---
20	15.0	15.0	8.5	8.5	---	---	---	---	---	---	---	---
21	14.5	14.5	8.0	8.0	1.0	1.0	---	---	---	---	---	---
22	14.5	14.5	8.0	8.5	---	---	---	---	---	---	---	---
23	14.5	14.5	8.0	8.5	---	---	---	---	---	---	---	---
24	14.5	14.5	6.5	6.5	---	---	---	---	---	---	---	---
25	14.5	14.5	6.5	6.5	---	---	---	---	---	---	---	---
26	13.5	13.5	6.5	6.5	---	---	---	---	---	---	---	---
27	13.5	13.5	5.5	5.5	---	---	---	---	---	---	---	---
28	13.0	13.0	5.5	5.5	---	---	---	---	---	---	---	---
29	12.0	12.0	5.5	5.5	---	---	---	---	---	---	---	---
30	12.0	12.0	5.5	5.5	---	---	---	---	---	---	---	---
31	12.0	12.0	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	---	---	3.5	3.5	10.0	10.0	16.5	16.5	20.5	20.5	19.0	19.0
2	---	---	3.5	3.5	10.0	10.0	17.0	18.0	20.5	20.5	18.5	18.5
3	---	---	3.5	3.5	10.0	10.0	18.0	18.0	20.5	20.5	18.5	18.5
4	---	---	3.5	3.5	10.0	10.0	16.0	16.5	20.5	21.0	17.0	18.0
5	---	---	3.0	3.5	10.0	11.0	16.5	16.5	21.0	21.0	19.0	19.0
6	---	---	3.5	4.5	11.0	11.0	16.5	16.5	20.0	20.5	18.0	20.0
7	---	---	4.5	4.5	11.0	11.0	18.5	18.0	19.5	19.5	19.5	20.0
8	---	---	5.0	4.5	11.0	11.0	19.0	19.0	20.5	21.0	20.0	20.0
9	---	---	5.0	5.5	11.0	11.0	19.5	19.5	21.0	21.0	20.0	20.0
10	---	---	5.5	5.5	11.0	11.5	19.5	20.0	21.0	21.0	19.0	19.0
11	---	---	6.0	6.0	11.0	11.5	19.0	19.0	21.0	21.0	19.0	19.0
12	0.5	0.5	6.0	6.0	11.5	11.5	19.0	19.0	21.0	21.0	19.5	19.0
13	---	---	6.5	6.5	12.0	12.0	18.5	19.0	21.0	21.0	17.0	18.0
14	---	0.5	6.5	6.5	12.0	12.0	18.5	19.0	21.0	21.0	19.0	19.5
15	0.5	0.5	6.5	6.5	12.0	12.0	19.0	19.0	21.0	21.0	19.5	19.0
16	0.5	1.0	6.5	6.5	11.0	11.5	19.0	19.0	21.0	21.0	19.0	19.5
17	0.5	1.0	6.5	8.0	11.5	11.5	19.0	18.5	21.0	21.0	19.5	20.0
18	1.0	1.0	9.0	8.0	11.5	12.0	19.0	19.0	21.0	21.0	20.0	20.0
19	1.0	1.5	8.0	8.5	12.0	12.0	19.0	19.0	21.0	21.0	18.5	18.5
20	1.0	1.0	6.5	8.0	14.0	15.0	19.0	19.0	21.0	21.0	18.0	17.0
21	1.0	1.5	8.5	8.5	15.0	15.0	18.5	18.5	21.0	21.0	17.0	16.5
22	1.5	1.5	8.0	8.0	15.0	15.5	19.0	19.0	21.0	21.0	18.0	16.5
23	1.5	1.5	8.0	8.0	15.5	16.0	19.5	19.5	21.0	21.0	17.0	17.0
24	1.5	1.5	8.5	9.0	16.5	16.5	20.0	20.0	20.5	20.5	17.5	16.5
25	1.0	1.0	9.0	9.0	16.5	16.5	20.0	20.0	20.5	20.5	17.0	18.0
26	1.0	1.0	9.0	9.0	16.5	16.5	20.0	20.0	19.5	20.0	17.0	17.0
27	1.5	2.0	9.0	9.0	16.5	16.5	20.0	20.0	20.0	20.0	16.5	16.5
28	2.0	2.0	9.5	9.5	16.5	16.5	20.0	20.0	20.0	20.0	17.0	17.0
29	2.0	3.0	9.5	9.5	16.0	16.5	20.0	20.5	20.0	20.0	17.0	17.0
30	2.0	2.0	10.0	10.0	16.5	16.5	20.5	20.5	19.5	19.5	16.5	16.5
31	---	---	10.0	10.0	---	---	20.5	20.5	19.0	19.0	---	---

04262650 OSWEGATCHIE RIVER AT GOUVERNEUR, N.Y.

LOCATION.--Lat 44°20'05", long 75°28'17", St. Lawrence County, at bridge on U.S. Highway 11, 50 ft upstream from dam in Gouverneur.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
NOV. 04...	0930	10.0	9.4	--	--	80	8.0	--	--	16	3.4	--
FEB. 09...	1100	.0	11.8	--	1970	102	7.8	--	--	28	.18	--
MAY 04...	0930	8.0	12.3	160	640	51	8.2	--	--	10	.46	--
AUG. 18...	0900	21.5	7.6	--	--	89	7.2	28	0	23	.31	.69

DATE	NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	LOSS ON IGNITION (MG/L)	TOTAL RESIDUE (MG/L)	RESIDUE ON IGNITION (MG/L)	FIXED FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
NOV. 04...	--	.19	.1	.030	.000	46	--	68	--	--	13	.9
FEB. 09...	--	.26	.3	.020	.010	66	--	74	--	--	11	.4
MAY 04...	--	.10	.6	.020	.020	53	--	62	--	--	22	1.0
AUG. 18...	.000	.08	.3	.020	.000	76	20	73	54	0	2	2.3

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED GALLIUM (GA) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)
AUG. 18...	56	25	0	0	9	0	0	24	0	<1	420	12

DATE	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)
AUG. 18...	<10	42	0	6	0	81	<1	2	.9	140	<1

04262650 OSWEGATCHIE RIVER AT GOUVERNEUR, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PESTICIDE ANALYSIS

DATE	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	TOX-APHENE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)
AUG. 18...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	SILVEX (UG/L)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG. 18...	.00	.00	.00	.00	.00	.00	.00	.00	6.0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 18...	.5	5.4	.2	1.6	1.5	.5	4.2	1.5

04263990 OSWEGATCHIE RIVER AT OGDENSBURG, N.Y.

LOCATION.--Lat 44°41'03", Long 75°29'20", St. Lawrence County, at bridge on State Highway 37 in Ogdensburg and 1.0 mile upstream from mouth.

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER TO NOVEMBER 1970

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 24...	1400	4.8	190	0	13	2.5	2.1	.9	38	0
NOV. 18...	1300	6.7	220	0	18	4.5	2.4	2.0	58	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 24...	31	15	2.7	.1	.08	.02	.32	.4	1.0	78
NOV. 18...	48	23	3.5	.1	.30	.02	.12	1.2	.25	106

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 24...	71	18	42	11	105	7.2	34	18	.04
NOV. 18...	90	36	64	16	153	7.1	45	15	.04

04264000 ST. LAWRENCE RIVER AT OGDENSBURG, N.Y.
(International Hydrologic Decade River Station)

LOCATION (Revised).--Lat 44°41'20", long 75°30'46", St. Lawrence County, intake of city of Ogdensburg water supply, 0.8 mile upstream from Oswegatchie River, and 1.3 miles upstream gaging station.

DRAINAGE AREA.--295,200 sq mi, including that of Oswegatchie River.

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1956, February 1966 to June 1971 (discontinued).
Water temperatures: October 1955 to September 1956.

REMARKS.--Prior to November 1970 samples were collected at ferry dock 0.8 mile downstream from present site. Samples collected in Ogdensburg Water Supply Plant.

CHEMICAL ANALYSES, OCTOBER 1970 TO JUNE 1971

DATE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV. 16...	1310	.5	0	0	38	6.3	12	1.2	112	0	92	27
JAN. 12...	0930	--	--	--	--	--	--	--	--	--	--	--
FEB. 09...	1400	.4	--	--	41	6.7	12	1.4	118	0	97	27
MAR. 22...	1100	.1	--	0	43	6.5	12	1.5	118	0	97	26
APR. 19...	1100	.2	--	--	39	8.0	12	1.4	109	0	89	28
MAY 19...	1019	.1	--	--	42	7.6	11	1.5	117	0	96	25
JUNE 09...	0900	.1	--	--	40	7.5	15	.4	116	0	95	26

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)
NOV. 16...	28	.2	.26	.01	.04	.7	.07	191	174	17	121
JAN. 12...	--	--	--	--	--	--	--	--	--	--	--
FEB. 09...	30	.3	.08	.02	.16	.9	.06	176	178	5	130
MAR. 22...	26	.1	.19	.04	.13	1.2	.10	183	175	19	134
APR. 19...	27	.2	--	.09	.06	1.0	--	201	171	59	130
MAY 19...	27	.2	--	.02	.18	.5	.09	194	173	62	136
JUNE 09...	25	.1	.25	.01	.01	.8	.07	198	172	47	131

DATE	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
NOV. 16...	29	327	8.2	9.5	0	11.2	5	--	--	160	.02
JAN. 12...	--	--	--	1.0	--	11.2	--	.0	--	--	--
FEB. 09...	33	335	8.0	1.0	2	--	--	2.0	--	--	--
MAR. 22...	37	329	7.9	1.0	3	11.6	--	--	6	80	--
APR. 19...	41	323	8.0	1.5	3	12.2	--	--	4	27	--
MAY 19...	40	317	8.1	10.0	3	--	--	--	--	--	--
JUNE 09...	36	317	8.1	10.5	1	9.1	21	--	1	13	--

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAR. 22...	0	0	20	2	0	<.5

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONT. - NEAR MASSENA, N.Y.
(FORMERLY PUBLISHED AS ST. LAWRENCE RIVER NEAR MASSENA, N.Y.)
(International Hydrologic Decade River Station)

LOCATION (Revised).--Lat 45°00'22", long 74°48'43", Stormont County, Ontario - St. Lawrence County, New York, at Robert Moses - Robert H. Saunders Power Dam on Lake St. Lawrence at the International Boundary at Cornwall, Ontario, 2.9 miles upstream from Grass River, 6.2 miles upstream from Raquette River, and 5.9 miles northeast of Massena, N.Y.

DRAINAGE AREA.--299,000 sq mi (revised).

PERIOD OF RECORD.--Water temperatures: October 1955 to October 1958, January 1966 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 22.0°C Aug. 9-13; minimum, freezing point Jan. 14 to Feb. 11, Feb. 13-28.

Period of record:
Water temperatures: Maximum, 24.0°C Aug. 10, 11, 1967, Aug. 17-19, 1969, Aug. 13-17, 1970; minimum, freezing point on many days during winter periods.

REMARKS.--Measurements made approximately 68 ft below normal forebay level. Records for period October 1955 to October 1958 collected at Aluminum Company of America Massena Canal Power Station and are unpublished.

COOPERATION.--Water temperature record furnished by the Power Authority of the State of New York.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	13.0	6.0	0.5	0.0	0.5	0.5	4.0	11.0	18.5	21.0	19.5
2	18.0	13.0	6.0	0.5	0.0	0.5	0.5	4.5	11.0	18.5	21.0	19.5
3	18.0	13.0	6.0	0.5	0.0	0.5	0.5	5.0	11.5	18.5	21.5	19.5
4	17.0	13.0	5.5	0.5	0.0	0.5	0.5	5.0	11.5	19.0	21.5	19.5
5	17.0	12.0	5.5	0.5	0.0	0.5	0.5	5.0	12.0	19.0	21.0	20.0
6	16.5	11.5	5.0	0.5	0.0	0.5	0.5	5.0	12.0	19.0	21.0	20.0
7	16.5	11.5	5.0	0.5	0.0	0.5	0.5	5.5	12.0	19.5	21.5	20.5
8	17.0	11.0	4.5	0.5	0.0	0.5	0.5	6.0	13.0	19.5	21.5	20.5
9	17.0	11.0	4.0	0.5	0.0	0.5	0.5	6.0	13.0	19.5	22.0	21.0
10	17.0	11.0	3.5	0.5	0.0	0.5	0.5	6.5	13.0	19.5	22.0	21.0
11	17.0	11.0	3.5	0.5	0.0	0.5	0.5	6.5	13.5	20.0	22.0	21.0
12	17.0	11.0	3.5	0.5	0.5	0.5	0.5	7.0	13.5	20.0	22.0	21.0
13	17.0	11.0	3.0	0.5	0.0	0.5	0.5	7.0	14.0	20.5	22.0	21.0
14	17.0	10.5	3.0	0.0	0.0	0.5	1.0	7.0	14.0	20.5	21.5	21.0
15	17.0	10.5	3.0	0.0	0.0	0.5	1.0	8.0	14.5	20.5	21.5	21.0
16	17.0	10.0	2.0	0.0	0.0	0.5	1.0	8.0	15.0	20.5	21.0	21.0
17	16.0	9.5	2.0	0.0	0.0	0.5	1.5	8.5	15.0	20.0	21.0	21.0
18	15.5	9.5	1.5	0.0	0.0	0.5	1.5	9.0	15.0	20.0	21.5	20.5
19	15.0	9.0	1.0	0.0	0.0	0.5	2.0	9.0	15.0	20.0	21.5	20.5
20	15.0	9.0	1.5	0.0	0.0	0.5	2.0	10.5	15.5	20.0	22.0	20.0
21	15.0	9.0	1.5	0.0	0.0	0.5	2.0	10.0	15.5	20.0	21.5	20.0
22	15.0	9.0	1.0	0.0	0.0	0.5	3.0	10.0	15.5	20.0	21.5	19.5
23	15.0	8.5	0.5	0.0	0.0	0.5	3.0	10.5	15.5	20.5	21.5	19.0
24	14.5	8.0	0.5	0.0	0.0	0.5	3.0	10.5	16.0	20.5	20.5	18.0
25	14.5	7.0	0.5	0.0	0.0	0.5	3.0	10.5	16.5	21.0	20.0	18.0
26	14.0	7.0	0.5	0.0	0.0	0.5	3.0	10.5	16.5	21.0	20.0	18.0
27	13.5	7.0	0.5	0.0	0.0	0.5	3.5	10.5	16.5	21.0	20.0	17.0
28	13.5	6.5	0.5	0.0	0.0	0.5	3.5	10.5	17.0	21.0	20.0	17.0
29	13.0	6.5	0.5	0.0	---	0.5	4.0	11.0	18.0	21.0	20.0	18.0
30	13.0	6.5	0.5	0.0	---	0.5	4.0	11.0	18.0	21.0	20.0	18.0
31	13.0	---	0.5	0.0	---	0.5	---	11.0	---	21.0	19.5	---
AVERAGE	16.0	10.0	2.5	0.5	0.0	0.5	1.5	8.0	14.5	20.0	21.0	19.5

04265437 GRASS RIVER ABOVE MASSENA, N.Y.

LOCATION.--Lat 44°55'20", Long 74°55'36", St. Lawrence County, at bridge on State Highway 37, 0.4 mile west of State Highway 56, 0.7 mile west of Massena, and 3.0 miles upstream from Massena Power Canal.

PERIOD OF RECORD.--Chemical analyses: May to November 1970 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER AND NOVEMBER 1970

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 24...	1145	7.6	230	10	12	2.8	1.6	.8	38	0
NOV. 18...	1145	7.3	160	0	16	4.4	2.0	1.3	52	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 24...	31	14	3.2	.2	.40	.02	.19	4.9	.16	76
NOV. 18...	43	17	2.0	.3	.44	.02	.11	1.1	.18	100

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT. 24...	67	23	41	10	99	7.1	54	24	.02
NOV. 18...	78	20	58	15	138	7.3	50	17	.06

04265452 GRASS RIVER BELOW MASSENA CENTER, N.Y.

LOCATION.--Lat 44°57'52", Long 74°47'53", St. Lawrence County, off south bank at end of road off South Grass River Road, 0.5 mile west of Haverstock Road, 1.7 miles east of Massena Center, 2.4 miles downstream from bridge on State Highway 131, and 2.4 miles from mouth.

PERIOD OF RECORD.--Chemical analyses: April to November 1970 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER AND NOVEMBER 1970

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
14...	1200	6.4	--	--	14	3.9	4.1	1.0	42	0
24...	1115	7.0	280	0	14	3.4	2.8	.9	34	0
NOV.										
18...	1115	7.3	170	20	20	5.4	2.9	1.6	70	0

DATE	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT.										
14...	34	17	6.3	.1	--	.16	.30	2.1	--	90
24...	28	18	4.5	.1	.12	.06	.26	.4	.18	100
NOV.										
18...	57	21	3.5	.6	.36	.02	.09	1.2	.26	118

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.									
14...	76	24	51	17	132	7.0	55	--	--
24...	69	57	49	21	125	7.3	57	25	.04
NOV.									
18...	98	19	72	14	172	7.5	45	22	.04

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.										
14...	0	2	1	1	270	2	20	<.5	<.5	0

04268000 RAQUETTE RIVER AT RAYMONDVILLE, N.Y.

LOCATION.--Lat 44°50'23", long 74°58'46", St. Lawrence County, at bridge west of State Highway 56, in Raymondville, 250 ft downstream from gaging station, 0.3 mile downstream from Trout Brook.

DRAINAGE AREA.--1131 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1969 to May 1971 (discontinued).

CHEMICAL ANALYSES, OCTOBER 1970 TO MAY 1971

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	ALKA-LINITY AS CACO3 (MG/L)
NOV. 04...	1350	1594	10.0	9.4	--	--	54	7.1	7
FEB. 08...	0945	1700	.0	12.8	--	4800	182	7.9	13
MAY 03...	1000	--	--	11.4	70	210	462	7.0	11

DATE	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL RESI-DUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
NOV. 04...	3.3	.18	.1	.020	.000	29	41	17	.5
FEB. 08...	.20	.23	.2	.020	.020	53	67	9	.6
MAY 03...	.81	.15	.4	.020	.010	55	65	10	1.5

04268230 RAQUETTE RIVER AT MASSENA SPRINGS, N.Y.

LOCATION.--Lat 44°54'59", Long 74°53'19", St. Lawrence County, at bridge on State Highway 420 (S. Main Street) in Massena Springs, 740 ft downstream from staff gage and 0.4 mile downstream from Hutchins Creek.

PERIOD OF RECORD.--Chemical analyses: April 1969 to November 1970 (discontinued).

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, OCTOBER AND NOVEMBER 1970

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
24...	1040	4.7	170	0	9.3	2.2	1.5	.5	30	0
NOV.										
18...	1045	5.4	150	10	13	4.0	1.9	.7	50	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	DIS_ SOLVED NITRITE (NO2) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	DIS_ SOLVED NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.										
24...	25	10	2.2	.0	.18	.02	.20	.6	.10	62
NOV.										
18...	41	13	1.8	.1	.25	.02	.12	.8	.10	71

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.									
24...	46	18	32	7	78	7.2	25	17	.02
NOV.									
18...	65	4	49	8	119	7.4	33	14	.04

04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.

LOCATION.--Lat 44°53'32", long 74°41'28", St. Lawrence County, at former gaging station 400 ft upstream from highway bridge, at Brasher Iron Works, 3.6 miles upstream from mouth, and 3.8 miles downstream from Lawrence Brook.

DRAINAGE AREA.--189 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1965 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
14...	1000	E245	7.3	260	10	26	6.4	2.6	1.2	97	0	80
NOV.												
16...	0930	E1050	6.7	140	10	22	5.5	1.5	1.3	79	0	65
DEC.												
10...	0935	E198	7.9	190	0	21	5.9	2.7	.7	79	0	65
JAN.												
13...	1415	E278	8.7	300	30	26	5.6	2.4	.7	84	0	69
FEB.												
10...	1040	E140	8.9	250	0	21	5.9	2.6	.8	87	0	71
MAR.												
23...	--	E500	6.4	50	0	16	4.6	1.9	1.0	67	0	55
APR.												
20...	1040	E1730	4.1	90	0	10	2.8	1.1	.7	40	0	33
MAY												
20...	0855	E330	2.9	180	0	9.8	3.1	1.2	.5	35	0	29
JUNE												
08...	0900	E153	4.6	330	30	14	3.6	1.6	.6	44	0	36
JULY												
26...	1015	E58	3.7	250	0	14	4.2	2.2	1.0	53	0	43
AUG.												
13...	1145	E59	4.1	290	0	15	4.7	2.7	.8	57	0	47
SEP.												
23...	0745	E166	7.3	470	0	17	5.0	2.7	.9	58	0	48

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)
OCT.												
14...	12	2.1	.1	.37	--	.02	.17	.4	.20	132	107	41
NOV.												
16...	12	3.0	.0	.59	--	.02	.11	1.2	.11	110	93	33
DEC.												
10...	14	1.8	.0	.22	--	.26	.22	1.6	.52	111	95	29
JAN.												
13...	13	3.7	.1	.29	--	.07	.26	1.1	.27	113	103	33
FEB.												
10...	12	.8	.1	.36	--	.06	.31	1.3	.40	99	97	16
MAR.												
23...	11	1.3	.0	.40	--	.02	.20	1.0	.16	116	77	55
APR.												
20...	9.7	.9	.0	.36	--	.05	.10	1.3	.20	66	51	25
MAY												
20...	9.0	2.0	.1	.34	--	.02	.28	.5	.17	--	47	--
JUNE												
08...	11	5.0	.0	.44	--	.01	.12	1.1	.08	--	63	--
JULY												
26...	9.8	2.5	.1	1.1	1.1	.03	.08	.0	.21	--	65	--
AUG.												
13...	12	2.7	.1	.50	.93	.26	.23	.7	.18	--	72	--
SEP.												
23...	17	2.4	.1	.60	.86	.06	.14	.6	.31	--	83	--

CONTINUED NEXT PAGE

04269500 DEER RIVER AT BRASHER IRON WORKS, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.											
14...	92	12	184	7.7	16.5	65	8.3	26	--	--	.06
NOV.											
16...	78	13	156	7.4	3.0	55	11.8	32	--	--	.03
DEC.											
10...	76	11	161	7.4	.5	40	--	16	--	--	.06
JAN.											
13...	88	19	168	7.6	.0	33	10.2	20	--	--	.01
FEB.											
10...	76	5	170	7.5	1.0	25	9.8	13	--	--	.02
MAR.											
23...	58	4	131	7.1	--	37	--	21	12	440	.03
APR.											
20...	36	4	85	7.3	3.5	42	9.6	18	21	270	.03
MAY											
20...	37	9	78	7.3	20.0	--	8.2	26	--	--	.06
JUNE											
08...	49	14	95	7.5	20.0	--	7.3	21	390	500	.04
JULY											
26...	52	9	112	7.5	23.0	--	7.1	16	--	270	.03
AUG.											
13...	57	10	120	7.6	20.0	--	7.5	17	43	4600	.05
SEP.											
23...	63	15	131	7.5	13.0	--	10.1	32	--	17000	.06

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
MAR.						
23...	0	0	220	3	30	<.5

04273400 SARANAC RIVER ABOVE PLATTSBURG, N.Y.

LOCATION.--Lat 44°40'10", Long 73°30'28", Clinton County, at power plant at Old Military Turnpike, 1.4 miles west of Plattsburg and 2.7 miles upstream from gaging station (04273500).

DRAINAGE AREA.--608 sq mi (at gage).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
21...	1100	5.1	130	0	9.1	2.0	1.9	.3	30	0
NOV.										
17...	1100	7.2	140	0	11	2.4	1.7	.5	38	0
JAN.										
26...	1100	9.1	140	0	10	2.4	2.1	.4	35	0
FEB.										
24...	1100	8.6	170	0	10	2.5	2.3	.5	35	0
MAR.										
23...	1100	8.0	180	0	9.0	2.1	2.2	.5	30	0
APR.										
19...	1100	6.9	110	0	7.5	1.9	1.9	.5	24	0
MAY										
17...	1400	4.7	70	0	6.0	1.2	1.0	.3	12	0
JUNE										
15...	1300	4.2	70	0	7.0	1.7	1.7	.7	22	0
JULY										
19...	1300	4.5	210	0	10	2.6	1.7	.5	30	0
AUG.										
17...	1100	4.2	240	0	9.0	2.4	2.3	.4	32	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)
OCT.										
21...	25	8.0	2.5	.0	.06	--	.01	.20	.9	.06
NOV.										
17...	31	9.5	1.6	.1	.42	--	.02	.12	.9	.08
JAN.										
26...	29	9.6	2.5	.1	.12	--	.06	.10	1.1	.07
FEB.										
24...	29	10	2.0	.0	.35	--	.02	.11	1.3	.08
MAR.										
23...	25	9.0	2.2	.0	.28	--	.03	.18	1.2	.07
APR.										
19...	20	9.2	3.2	.0	.21	--	.03	.07	1.4	.08
MAY										
17...	10	8.1	1.1	.0	.54	--	.02	.24	.9	.15
JUNE										
15...	18	8.0	2.5	.0	.38	--	.01	.05	.8	.08
JULY										
19...	25	8.8	1.9	.0	.33	.53	.13	.10	.3	.09
AUG.										
17...	26	8.2	1.0	.0	.26	.49	.07	.15	.4	.61

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
21...	94	44	19	30	5	73	7.3	28	14	.02
NOV.										
17...	62	54	30	38	7	88	7.3	28	10	.02
JAN.										
26...	57	54	13	34	6	83	7.3	17	12	.03
FEB.										
24...	62	55	25	35	6	86	7.3	17	8	.01
MAR.										
23...	69	49	43	31	7	77	7.4	23	9	.03
APR.										
19...	56	44	17	26	7	70	7.3	31	14	.03
MAY										
17...	--	30	--	19	10	46	6.9	--	19	.03
JUNE										
15...	--	38	--	24	6	58	7.2	--	17	.03
JULY										
19...	--	46	--	35	10	69	7.3	--	20	.04
AUG.										
17...	--	45	--	32	6	72	7.6	--	13	.05

04279015 TICONDEROGA CREEK AT TICONDEROGA, N.Y.

LOCATION.--Lat 43°51'00", Long 73°25'20", Essex County, at bridge on State Highway 22 in Ticonderoga, and 0.8 mile downstream from gaging station (04279000 Lake George Outlet at Ticonderoga) which is 250 ft upstream from Trout Brook.

DRAINAGE AREA.--234 sq mi (at gage).

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
20...	1145	E68	2.1	230	0	44	2.7	72	3.3	140	0
NOV.											
07...	1400	E66	3.5	280	50	19	3.1	120	5.5	165	11
DEC.											
22...	1045	E67	2.2	40	0	17	3.3	7.2	.7	52	0
JAN.											
18...	1320	E65	2.5	90	0	18	3.1	6.0	1.0	50	0
FEB.											
18...	1100	E806	1.8	30	0	17	2.4	7.0	.5	50	0
MAR.											
15...	1345	E683	2.2	0	0	16	2.7	7.8	.8	51	0
APR.											
21...	1330	E911	2.1	20	0	12	2.2	2.3	.5	37	0
MAY											
17...	1600	E920	1.3	10	0	13	2.5	2.2	.5	39	0
JUNE											
07...	1230	E65	1.6	110	0	17	3.3	4.6	.7	56	0
JULY											
12...	1400	E146	1.7	40	0	14	2.9	3.2	.6	44	0
AUG.											
10...	1300	E994	1.4	40	0	12	2.5	2.4	.6	36	0
SEP.											
07...	1230	E536	1.4	20	0	12	2.5	2.6	.6	36	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.											
20...	115	73	56	.2	.59	--	.09	.53	.0	.93	327
NOV.											
07...	153	143	42	.1	.33	--	.06	.36	.8	.56	444
DEC.											
22...	43	22	7.5	.1	.44	--	.02	.19	.1	.19	82
JAN.											
18...	41	25	2.3	.1	.35	--	.02	.13	.1	.81	85
FEB.											
18...	41	19	9.8	.1	.53	--	.02	.22	1.2	.37	80
MAR.											
15...	42	17	10	.1	.19	--	.02	.18	.1	.32	88
APR.											
21...	30	13	4.2	.1	.39	--	.01	.03	.0	.18	57
MAY											
17...	32	12	3.1	.0	.50	--	.01	.05	.0	.06	--
JUNE											
07...	46	13	4.1	.1	.36	--	.01	.09	.6	.13	--
JULY											
12...	36	12	4.2	.0	.31	.92	.03	.13	.6	.37	--
AUG.											
10...	30	8.9	3.2	.0	.17	.30	.02	.16	.0	.12	--
SEP.											
07...	30	19	4.9	.0	.44	1.0	.08	.74	.2	.09	--

04279015 TICONDEROGA CREEK AT TICONDEROGA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
20...	324	53	121	6	501	6.7	150	157	--	.30
NOV.										
07...	419	40	60	0	641	9.2	140	115	--	.35
DEC.										
22...	86	4	56	13	155	7.0	9	16	--	.02
JAN.										
18...	84	3	58	17	148	7.1	3	--	--	.04
FEB.										
18...	80	1	52	11	141	7.9	6	69	--	.03
MAR.										
15...	82	12	51	9	151	7.3	10	4	--	.06
APR.										
21...	55	22	39	9	97	7.4	14	81	--	.03
MAY										
17...	94	--	42	11	99	7.4	--	--	12	.02
JUNE										
07...	73	--	56	10	138	7.5	--	--	20	.02
JULY										
12...	62	--	47	11	109	7.4	--	45	--	.04
AUG.										
10...	49	--	40	11	99	7.4	--	8	--	.02
SEP.										
07...	58	--	40	11	100	7.5	--	8	--	.01

04294402 LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y.

LOCATION.--Lat 43°34'55", long 73°25'19", Washington County, N.Y.-Rutland County, Vt., at mid-channel directly south of navigation light, 0.25 mile upstream from South Bay and 2.0 miles northwest of Whitehall.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DEPTH (FT)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	ORGANIC NITROGEN (N) (MG/L)
OCT. 05...	1500	9.0	13.5	9.0	1800	20000	185	--	--	--	--	--
MAY 18...	1430	3.0	15.5	9.3	35	190	197	8.0	--	--	--	--
JUNE 08...	1500	7.5	20.5	8.9	660	E21000	222	7.9	--	--	--	--
JULY 01...	--	9.0	24.0	6.7	260	18000	202	7.9	78	0	64	.34
AUG. 03...	1500	9.0	24.5	--	400	21000	224	7.9	--	--	--	--
SEP. 09...	1430	10	23.0	7.9	300	25000	246	8.1	106	0	87	.44

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLOROPHYLL A (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 05...	--	.67	--	--	.3	.080	--	20	7	.5	.04
MAY 18...	--	.32	--	--	.3	.050	--	7	17	3.8	.04
JUNE 08...	--	.67	--	--	.3	.050	--	8	12	5.7	.03
JULY 01...	.92	.53	.020	.19	.4	.050	--	9	8	5.8	.03
AUG. 03...	--	.58	.010	.05	.2	.10	--	80	13	7.9	.05
SEP. 09...	.84	.53	.010	.09	.3	.060	.020	10	12	3.2	.03

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)
SEP. 09...	3.8	32	6.7	5.3	2.0	20	8.5	.1	155	133	28

DATE	TOTAL RESIDUE (MG/L)	FIXED FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)
SEP. 09...	14	14	19	110	21	1	11	3.4	1.0	0	.01

04294402 LAKE CHAMPLAIN (EAST BAY) NEAR WHITEHALL, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)
SEP.									
09...	.00	.00	.00	.00	.00	.00	.00	.00	.01

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP.									
09...	.01	.00	.00	.00	.00	.00	.00	.00	3.0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP.								
09...	1.6	5.0	.2	1.5	4.8	.7	4.0	1.4

04294408 LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y.

LOCATION.--Lat 43°50'60", long 73°23'16", Essex County, N.Y.-Addison County, Vt., at mid-lake at New York-Vermont state line opposite mouth of Ticonderoga Creek, 0.5 mile south of Fort Ticonderoga and 2.0 miles southeast of Ticonderoga.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DEPTH (FT)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	ORGANIC NITROGEN (N) (MG/L)
OCT. 05...	1200	8.0	15.5	--	164	3800	225	--	--	--	--	--
MAY 18...	1100	10	13.0	9.6	26	20	150	8.1	--	--	--	--
JUNE 08...	1135	10	19.5	8.2	32	180	204	7.8	--	--	--	--
JULY 01...	1100	9.5	23.5	7.5	2	180	193	7.8	91	0	75	.31
AUG. 03...	1200	10	24.0	--	180	3800	165	8.1	--	--	--	--
SEP. 09...	1130	10	23.0	7.4	40	1570	178	8.2	74	0	61	.60

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLOROPHYLL A (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 05...	--	.72	--	--	.00	.060	--	25	27	2.0	.06
MAY 18...	--	.26	--	--	.09	.020	--	3	18	1.9	.03
JUNE 08...	--	.51	--	--	.04	.020	--	10	21	5.5	.04
JULY 01...	.44	.41	.010	.10	.02	.030	--	7	9	5.8	.03
AUG. 03...	--	.38	.000	.04	.00	.040	--	2	9	9.3	.02
SEP. 09...	.86	.75	.010	.15	.1	.040	.000	20	11	4.5	.06

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)
SEP. 09...	2.1	22	4.7	4.1	2.0	16	6.0	.1	121	95	10

DATE	FIXED FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)
SEP. 09...	10	11	74	14	3	32	2.4	4.0	0	.01

04294408 LAKE CHAMPLAIN NEAR TICONDEROGA, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)
SEP. 09...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07

DATE	SILVEX (UG/L)	DI-AZINON (UG/L)	ETHION (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP. 09...	.00	.00	.00	.00	.00	.00	.00	.00	2.0

RADIOCHEMICAL ANALYSIS

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 09...	.5	4.6	.4	1.5	1.4	1.1	3.6	1.3

04294410 LAKE CHAMPLAIN NEAR CROWN POINT, N.Y.

LOCATION.--Lat 43°55'25", long 73°24'20", Essex County, N.Y.-Addison County, Vt., at mid-lake at New York-Vermont state line, approximately 1.5 mile north of Fivemile Point and 2.3 miles southeast of Crown Point.

PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DEPTH (FT)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	ORGANIC NITROGEN (N) (MG/L)
OCT. 05...	1100	9.0	15.0	6.6	<1	8	210	7.0	--	--	--	--
MAY 18...	1030	11	13.5	8.7	1	<1	162	8.2	--	--	--	--
JUNE 08...	1105	8.5	19.0	9.4	<1	41	213	8.2	--	--	--	--
JULY 01...	1000	8.5	23.5	7.9	<1	200	195	8.3	85	0	70	.31
AUG. 03...	1130	8.0	23.0	--	10	1600	222	8.2	--	--	--	--
SEP. 09...	1030	9.0	22.5	7.5	0	2600	190	8.3	79	0	65	.43

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	NITRITE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED-PHOSPHORUS (P) (MG/L)	TURBIDITY (JTU)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CHLOROPHYLL A (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT. 05...	--	.59	--	--	.3	.050	--	20	14	1.3	.06
MAY 18...	--	.35	--	--	.1	.030	--	9	17	2.6	.03
JUNE 08...	--	.40	--	--	.06	.020	--	15	16	1.9	.03
JULY 01...	.51	.44	.010	.14	.05	.030	--	10	12	6.9	.03
AUG. 03...	--	.49	.000	.04	.00	.060	--	15	10	1.0	.02
SEP. 09...	.66	.55	.010	.12	.1	.040	.030	35	18	2.5	.03

DATE	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)
SEP. 09...	1.4	24	5.3	4.8	2.1	16	6.8	.0	127	100	30

DATE	FIXED FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)
SEP. 09...	27	31	82	17	1	8	2.0	1.0	0	.00

04294410 LAKE CHAMPLAIN NEAR CROWN POINT, N.Y.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PESTICIDE ANALYSIS

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)
SEP. 09...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.08

DATE	SILVEX (UG/L)	DIAZINON (UG/L)	ETHION (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	METHYL TRITHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP. 09...	.00	.00	.00	.00	.00	.00	.00	.00	2.0

RADIOCHEMICAL ANALYSIS

DATE	DISSOLVED GROSS ALPHA AS U-NAT. (PC/L)	DISSOLVED GROSS BETA AS CS-137 (PC/L)	SUSPENDED GROSS ALPHA AS U-NAT. (PC/L)	SUSPENDED GROSS BETA AS CS-137 (PC/L)	DISSOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DISSOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)
SEP. 09...	.7	4.2	1.6	4.2	2.0	4.7	3.4	3.6

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, N.Y.

LOCATION.--Lat 44°59'45", Long 73°21'40", Clinton County, at gaging station at outlet of Lake Champlain at old railroad bridge in Rouses Point and 1.0 mile south of Fort Montgomery.

DRAINAGE AREA.--8,277 sq mi.

PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.

COOPERATION.--Samples furnished by New York State Department of Environmental Conservation.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
21...	1000	.8	0	0	18	3.4	4.0	.9	58	0	48
NOV.											
17...	0900	1.1	10	0	17	3.4	3.8	.9	58	0	48
APR.											
22...	1100	3.4	--	--	21	4.5	4.4	1.4	65	0	53
23...	0900	1.6	10	0	16	3.8	4.1	1.1	57	0	47
MAY											
18...	0900	1.1	10	0	18	3.6	3.9	1.1	53	0	43
JUNE											
16...	1400	.7	20	0	15	3.6	4.3	1.2	52	0	43
JULY											
20...	0900	.6	20	0	18	3.8	4.2	1.0	54	0	44

DATE	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
OCT.											
21...	13	6.7	.1	.00	--	.01	.18	.2	.04	82	74
NOV.											
17...	13	3.5	.1	.30	--	.04	.09	.5	.06	94	71
APR.											
22...	12	6.7	.1	--	--	.02	.05	1.6	--	104	87
23...	13	5.0	.0	.23	--	.02	.06	1.0	.06	81	74
MAY											
18...	12	6.1	.1	.51	--	.01	.12	.5	.06	--	73
JUNE											
16...	12	5.7	.0	.34	--	.29	.05	.4	.05	--	69
JULY											
20...	14	5.7	.0	.23	.47	.16	.22	.0	.31	--	75

DATE	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
21...	18	59	11	144	7.7	--	6	--	6	.02
NOV.										
17...	19	56	8	145	7.6	--	4	--	2	.01
APR.										
22...	31	70	18	169	7.4	4.0	16	10.4	--	--
23...	24	55	9	143	7.8	--	4	--	7	.02
MAY										
18...	--	59	16	136	8.1	--	--	--	5	.03
JUNE										
16...	--	52	10	142	7.7	--	--	--	9	.03
JULY										
20...	--	61	16	134	7.7	--	--	--	9	.02

WATER QUALITY RECORDS, 1971

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS ON LONG ISLAND											
01302500 - GLEN COVE CREEK AT GLEN COVE, N.Y. (LAT 40 51 48 LONG 073 38 05)											
NOV., 1970											
03...	0850	2.9	16	980	110	20	4.8	9.6	1.6	42	0
17...	0835	3.0	13	990	110	18	5.2	10	2.2	44	0
APR., 1971											
22...	1500	2.8	13	660	110	17	5.6	12	2.0	44	0
01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR, N.Y. (LAT 40 51 25 LONG 073 27 50)											
OCT., 1970											
27...	1000	3.0	5.4	560	10	3.5	1.5	5.5	.8	18	0
NOV.											
17...	0945	3.4	5.4	790	30	4.0	1.4	5.7	.9	16	0
APR., 1971											
23...	1330	2.1	1.5	940	70	4.0	1.6	7.2	1.0	15	0
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN, N.Y. (LAT 40 50 55 LONG 073 13 25)											
OCT., 1970											
27...	1115	32	6.1	220	10	4.0	1.4	5.1	.9	10	0
NOV.											
17...	1100	41	6.8	150	30	5.0	1.3	6.1	.9	12	0
APR., 1971											
22...	1350	37	4.7	220	50	4.5	1.7	7.2	.8	8	0
MAY											
24...	1345	36	5.5	360	40	5.0	1.5	6.4	.8	15	0
01304500 - PECONIC RIVER AT RIVERHEAD, N.Y. (LAT 40 59 49 LONG 072 41 14)											
OCT., 1970											
27...	1310	20	1.5	500	50	7.5	2.2	5.9	1.7	20	0
APR., 1971											
22...	1115	35	3.2	760	100	6.5	2.0	6.3	1.4	14	0
01305500 - SWAN RIVER AT EAST PATCHOGUE, N.Y. (LAT 40 46 01 LONG 072 59 39)											
OCT., 1970											
29...	0825	11	9.0	200	0	5.3	1.6	6.3	.9	14	0
APR., 1971											
21...	1350	11	8.8	350	100	5.8	1.8	7.0	1.1	20	0
01306000 - PATCHOGUE RIVER AT PATCHOGUE, N.Y. (LAT 40 45 56 LONG 073 01 16)											
OCT., 1970											
29...	0850	--	7.5	630	50	6.0	2.0	7.7	1.2	18	0
01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA, N.Y. (LAT 40 49 57 LONG 073 07 34)											
APR., 1971											
22...	1255	--	.3	270	20	5.6	1.8	7.0	1.3	12	0
01306495 - CONNETQUOT R DISTRIBUTARY NEAR OAKDALE, N.Y. (LAT 40 45 00 LONG 073 08 52)											
OCT., 1970											
29...	0925	3.2	10	190	0	4.8	2.0	4.4	.6	18	0
APR., 1971											
21...	1245	3.0	8.6	180	0	4.0	2.0	4.7	.6	19	0
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER, N.Y. (LAT 40 44 51 LONG 073 09 03)											
OCT., 1970											
29...	0950	24	10	400	40	28	65	600	25	26	0
APR., 1971											
21...	1135	34	8.9	290	30	6.5	7.5	49	2.5	22	0
01307000 - CHAMPLIN CREEK AT ISLIP, N.Y. (LAT 40 44 15 LONG 073 12 05)											
OCT., 1970											
29...	1030	--	10	650	490	8.0	2.3	11	1.8	12	0
APR., 1971											
21...	1045	--	9.6	340	440	8.0	2.2	12	1.8	22	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
STREAMS ON LONG ISLAND											
01302500 - GLEN COVE CREEK AT GLEN COVE, N.Y. (LAT 40 51 48 LONG 073 38 05)											
NOV., 1970											
03...	34	18	16	.1	.59	.04	.12	14	.24	139	109
17...	36	20	18	.0	.54	.05	.13	12	.60	129	124
APR., 1971											
22...	36	18	21	.1	.05	.06	.18	13	.24	122	124
01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR, N... (LAT 40 51 25 LONG 073 27 50)											
OCT., 1970											
27...	15	4.8	8.7	.0	.33	.02	.25	1.5	.06	30	41
NOV.											
17...	13	4.5	8.9	.1	.18	.03	.18	2.2	.22	49	42
APR., 1971											
23...	12	5.0	12	.1	.48	.02	.10	1.0	.09	36	41
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN, N.Y. (LAT 40 50 55 LONG 073 13 25)											
OCT., 1970											
27...	8	5.5	8.3	.1	.36	.04	.61	2.1	.81	26	40
NOV.											
17...	10	6.0	9.3	.0	.46	.05	.61	2.9	.83	56	46
APR., 1971											
22...	7	6.0	11	.1	.35	.03	.05	4.0	.08	46	44
MAY											
24...	12	6.8	9.6	.0	.46	.07	.28	2.2	.43	46	46
01304500 - PECONIC RIVER AT RIVERHEAD, N.Y. (LAT 40 59 49 LONG 072 41 14)											
OCT., 1970											
27...	16	13	10	.1	.36	.04	.52	.0	.40	46	53
APR., 1971											
22...	11	12	12	.1	.34	.02	.27	.5	2.0	62	57
01305500 - SWAN RIVER AT EAST PATCHOGUE, N.Y. (LAT 40 46 01 LONG 072 59 39)											
OCT., 1970											
29...	11	6.6	9.8	.0	.24	.02	.10	4.2	.06	52	51
APR., 1971											
21...	16	6.6	9.6	.1	.42	.04	.11	4.1	.10	52	55
01306000 - PATCHOGUE RIVER AT PATCHOGUE, N.Y. (LAT 40 45 56 LONG 073 01 16)											
OCT., 1970											
29...	15	9.7	11	.0	.21	.02	.15	3.5	.11	55	58
01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA, N.Y. (LAT 40 49 57 LONG 073 07 34)											
APR., 1971											
22...	10	13	13	.1	.43	.01	.07	.5	.05	56	50
01306495 - CONNETQUOT R DISTRIBUTARY NEAR OAKDALE, N.Y. (LAT 40 45 00 LONG 073 08 52)											
OCT., 1970											
29...	15	5.5	6.8	.0	.17	.02	.21	2.8	.09	45	46
APR., 1971											
21...	16	5.0	7.2	.0	.32	.02	.14	2.8	.08	44	45
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER, N.Y. (LAT 40 44 51 LONG 073 09 03)											
OCT., 1970											
29...	21	142	1100	.1	.70	.03	.32	2.1	.32	2050	2000
APR., 1971											
21...	18	15	78	.1	.31	.02	.11	2.9	.11	189	182
01307000 - CHAMPLIN CREEK AT ISLIP, N.Y. (LAT 40 44 15 LONG 073 12 05)											
OCT., 1970											
29...	10	14	15	.1	.30	.06	1.2	8.0	.16	92	78
APR., 1971											
21...	18	15	15	.1	.28	.06	.72	7.5	.18	85	83

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CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)
STREAMS ON LONG ISLAND--Continued											
01302500 - GLEN COVE CREEK AT GLEN COVE, N.Y. (LAT 40 51 48 LONG 073 38 05)											
NOV., 1970											
03...	14	70	35	191	7.4	--	2	--	.11	--	--
17...	29	66	30	195	7.5	--	5	--	.06	<.5	<.5
APR., 1971											
22...	29	66	29	207	7.2	12.5	1	10.4	.04	--	--
01303500 - COLD SPRING BROOK AT COLD SPRING HARBOR, N.Y. (LAT 40 51 25 LONG 073 27 50)											
OCT., 1970											
27...	2	14	0	69	6.8	--	4	--	.04	--	--
NOV.											
17...	14	16	3	70	7.2	--	5	--	.02	<.5	<.5
APR., 1971											
23...	0	17	4	80	6.9	12.5	2	3.6	.02	--	--
01304000 - NISSEQUOGUE RIVER NEAR SMITHTOWN, N.Y. (LAT 40 50 55 LONG 073 13 25)											
OCT., 1970											
27...	2	16	8	65	6.1	--	20	--	.04	--	--
NOV.											
17...	21	18	8	74	6.8	--	10	--	.32	<.5	<.5
APR., 1971											
22...	6	18	12	83	7.0	15.0	4	11.6	.02	--	--
MAY											
24...	1	19	6	74	6.8	18.0	4	8.9	.01	--	--
01304500 - PECONIC RIVER AT RIVERHEAD, N.Y. (LAT 40 59 49 LONG 072 41 14)											
OCT., 1970											
27...	6	28	11	101	6.6	--	18	--	.05	--	--
APR., 1971											
22...	25	24	13	93	6.8	13.0	9	10.6	.03	--	--
01305500 - SWAN RIVER AT EAST PATCHOGUE, N.Y. (LAT 40 46 01 LONG 072 59 39)											
OCT., 1970											
29...	15	24	13	83	6.8	--	5	--	.06	--	--
APR., 1971											
21...	12	22	5	89	7.1	13.0	3	12.8	.03	--	--
01306000 - PATCHOGUE RIVER AT PATCHOGUE, N.Y. (LAT 40 45 56 LONG 073 01 16)											
OCT., 1970											
29...	10	23	8	98	6.8	--	13	--	.06	--	--
01306405 - LAKE RONKONKOMA AT LAKE RONKONKOMA, N.Y. (LAT 40 49 57 LONG 073 07 34)											
APR., 1971											
22...	17	21	12	98	7.0	14.0	3	11.8	.02	--	--
01306495 - CONNETQUOT R DISTRIBUTARY NEAR OAKDALE, N.Y. (LAT 40 45 00 LONG 073 08 52)											
OCT., 1970											
29...	2	20	5	69	6.8	--	7	--	.04	--	--
APR., 1971											
21...	4	18	3	69	7.1	15.0	5	12.6	.03	--	--
01306499 - CONNETQUOT RIVER NEAR NORTH GREAT RIVER, N.Y. (LAT 40 44 51 LONG 073 09 03)											
OCT., 1970											
29...	140	338	316	3720	6.9	--	5	--	1.8	--	--
APR., 1971											
21...	26	47	29	364	7.1	14.0	4	11.2	.04	--	--
01307000 - CHAMPLIN CREEK AT ISLIP, N.Y. (LAT 40 44 15 LONG 073 12 05)											
OCT., 1970											
29...	4	30	20	132	6.3	--	2	--	.16	--	--
APR., 1971											
21...	20	29	11	142	6.8	11.0	2	12.8	.09	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
STREAMS ON LONG ISLAND--Continued											
01307500 - PENATAQUIT CREEK AT BAY SHORE, N.Y. (LAT 40 43 37 LONG 073 14 41)											
OCT., 1970											
29...	1045	3.9	10	470	720	16	2.8	26	2.7	16	0
APR., 1971											
21...	1000	6.2	8.7	400	660	16	3.0	28	2.6	23	0
01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52)											
OCT., 1970											
30...	0845	46	6.9	520	300	10	2.9	15	2.7	16	0
APR., 1971											
20...	1335	8.1	6.8	970	920	11	2.8	15	3.3	16	0
01308500 - CARLLS RIVER AT BABYLON, N.Y. (LAT 40 42 31 LONG 073 19 46)											
OCT., 1970											
30...	0800	12	7.8	620	450	12	2.9	13	3.0	12	0
APR., 1971											
20...	1410	18	5.6	510	530	10	2.8	18	2.9	21	0
01309000 - SANTAPOGUE CREEK AT LINDENHURST, N.Y. (LAT 40 41 31 LONG 073 21 20)											
OCT., 1970											
30...	0915	--	8.6	290	560	11	3.6	19	3.2	16	0
FEB., 1971											
17...	--	2.0	8.3	840	1400	12	3.6	24	3.8	10	0
01309950 - BELLMORE CREEK NEAR BELLMORE, N.Y. (LAT 40 40 43 LONG 073 30 58)											
NOV., 1970											
03...	1015	3.6	8.2	520	680	23	3.1	29	6.0	30	0
APR., 1971											
20...	1130	5.7	7.0	480	1200	22	3.6	32	5.8	44	0
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE, N.Y. (LAT 40 40 47 LONG 073 30 46)											
NOV., 1970											
03...	1020	.12	5.3	130	40	28	4.5	33	6.8	56	0
FEB., 1971											
17...	--	--	8.2	340	1200	26	3.8	39	7.1	32	0
APR.											
20...	1250	2.0	7.2	380	720	26	4.0	38	7.3	57	0
01311000 - PINES BROOK AT MALVERNE, N.Y. (LAT 40 39 59 LONG 073 39 35)											
APR., 1971											
19...	1030	.16	7.6	2100	1500	29	5.4	25	6.5	57	0

CONTINUED NEXT PAGE

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

STREAMS ON LONG ISLAND--Continued

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
01307500 - PENATAQUIT CREEK AT BAY SHORE, N.Y. (LAT 40 43 17 LONG 073 14 41)											
OCT., 1970											
29...	13	18	48	.1	.41	.12	1.0	13	.66	148	147
APR., 1971											
21...	19	18	48	.1	.70	.08	.49	13	.08	170	150
01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52)											
OCT., 1970											
30...	11	21	21	.0	.51	.06	.80	10	.14	100	98
APR., 1971											
20...	11	25	18	.1	.60	.08	2.0	11	.10	116	103
01308500 - CARLLS RIVER AT BABYLON, N.Y. (LAT 40 42 31 LONG 073 19 44)											
OCT., 1970											
30...	10	25	18	.0	.66	.09	2.0	11	.30	91	107
APR., 1971											
20...	17	21	29	.1	.33	.07	.97	12	.06	108	109
01309000 - SANTAPOGUE CREEK AT LINDENHURST, N.Y. (LAT 40 41 31 LONG 073 21 20)											
OCT., 1970											
30...	13	28	25	.2	.16	.09	1.9	8.0	.01	119	117
FEB., 1971											
17...	8	31	33	.0	.38	.00	3.6	19	.10	149	140
01309950 - BELLMORE CREEK NEAR BELLMORE, N.Y. (LAT 40 40 43 LONG 073 30 58)											
NOV., 1970											
03...	25	50	36	.1	.16	.27	3.8	12	.10	221	206
APR., 1971											
20...	36	46	35	.1	.32	.14	3.1	26	.08	201	203
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE, N.Y. (LAT 40 40 47 LONG 073 30 44)											
NOV., 1970											
03...	45	67	44	.2	.70	.55	2.1	22	.16	267	258
FEB., 1971											
17...	26	68	45	.1	.05	.00	4.9	35	.07	288	233
APR.											
20...	67	53	42	.1	.24	.14	3.2	27	.06	280	251
01311000 - PINES BROOK AT MALVERNE, N.Y. (LAT 40 39 50 LONG 073 39 35)											
APR., 1971											
19...	47	46	39	.0	.32	.08	1.6	18	.04	217	207

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
STREAMS ON LONG ISLAND--Continued											
01307500 - PENATAQUIT CREEK AT BAY SHORE, N.Y. (LAT 40 43 37 LONG 073 14 41)											
OCT., 1970 29...	5	52	38	269	6.4	--	5	--	.25	--	--
APR., 1971 21...	48	52	33	279	6.7	11.0	2	12.2	.10	--	--
01308000 - SAMPAWAMS CREEK AT BABYLON, N.Y. (LAT 40 42 15 LONG 073 18 52)											
OCT., 1970 30...	6	37	26	172	6.6	--	17	--	.25	--	--
APR., 1971 20...	30	39	28	191	6.6	16.0	3	12.6	.28	--	--
01308500 - CARLLS RIVER AT BABYLON, N.Y. (LAT 40 42 31 LONG 073 19 44)											
OCT., 1970 30...	3	42	32	174	6.1	--	2	--	.39	--	--
APR., 1971 20...	19	36	19	197	6.9	16.0	1	13.0	.16	--	--
01309000 - SANTAPOGUE CREEK AT LINDENHURST, N.Y. (LAT 40 41 31 LONG 073 21 20)											
OCT., 1970 30...	11	42	28	206	6.3	--	3	--	.34	--	--
FEB., 1971 17...	10	45	37	245	6.1	5.0	3	8.8	.23	--	--
01309950 - BELLMORE CREEK NEAR BELLMORE, N.Y. (LAT 40 40 43 LONG 073 30 58)											
NOV., 1970 03...	10	70	46	358	6.6	--	5	--	.36	--	--
APR., 1971 20...	41	69	33	357	6.9	15.0	4	9.4	.24	--	--
01309990 - BELLMORE CREEK TRIBUTARY AT BELLMORE, N.Y. (LAT 40 40 47 LONG 073 30 46)											
NOV., 1970 03...	16	88	42	400	6.7	--	6	--	.35	--	--
FEB., 1971 17...	36	81	54	402	7.0	2.0	5	4.0	.23	--	--
APR. 20...	41	81	35	408	7.3	21.0	4	18.0	.27	--	--
01311000 - PINES BROOK AT MALVERNE, N.Y. (LAT 40 39 59 LONG 073 39 35)											
APR., 1971 19...	41	95	48	361	6.7	15.0	21	6.6	.20	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
BLIND BROOK BASIN												
01300000 - BLIND BROOK AT RYE, N.Y. (LAT 40 59 00 LONG 073 41 14)												
SEP., 1971												
14...	1030	228	6.8	14	4.3	7.5	3.2	38	0	24	11	.1
BEAVER SWAMP BROOK BASIN												
01300500 - BEAVER SWAMP BROOK AT MAMARONECK, N.Y. (LAT 40 57 21 LONG 073 43 07)												
JUNE, 1971												
30...	1730	.52	12	42	15	31	5.3	101	0	47	75	.3
AUG.												
03...	1050	14	12	31	9.5	25	5.5	66	0	47	50	.2
SEP.												
14...	1145	110	6.6	15	4.8	15	4.0	40	0	32	20	.2
MAMARONECK RIVER BASIN												
01301000 - MAMARONECK RIVER AT MAMARONECK, N.Y. (LAT 40 57 15 LONG 073 44 05)												
JUNE, 1971												
02...	0815	24	5.4	44	11	40	4.4	76	0	45	100	.2
AUG.												
03...	1200	44	7.3	29	7.1	24	4.6	60	0	37	39	.1
SEP.												
14...	1350	312	6.7	18	4.5	15	3.5	43	0	27	23	.2
BRONX RIVER BASIN												
01302000 - BRONX RIVER AT BRONXVILLE, N.Y. (LAT 40 56 10 LONG 073 50 10)												
JUNE, 1971												
02...	1130	23	5.7	55	15	31	4.4	110	0	41	74	.1
AUG.												
28...	1445	720	3.4	13	3.4	6.3	3.0	36	0	16	12	.1
HUDSON RIVER BASIN												
01312000 - HUDSON RIVER NEAR NEWCOMB, N.Y. (LAT 43 58 00 LONG 074 07 55)												
APR., 1971												
28...	1310	968	6.0	5.8	1.0	1.9	.2	8	0	10	2.1	.2
01315500 - HUDSON RIVER AT NORTH CREEK, N.Y. (LAT 43 42 00 LONG 073 59 00)												
APR., 1971												
28...	0800	3930	6.0	5.5	.8	1.1	.2	10	0	8.3	1.3	.1
01316822 - CHESTER CREEK AT CHESTERTOWN, N.Y. (LAT 43 39 22 LONG 073 48 05)												
AUG., 1971												
25...	1700	9.9	7.2	17	3.1	4.8	.7	54	0	10	8.6	.1
01318500 - HUDSON RIVER AT HADLEY, N.Y. (LAT 43 19 10 LONG 073 50 40)												
APR., 1971												
30...	1100	11600	5.7	5.9	.9	1.4	.1	11	0	8.5	1.4	.1
01321000 - SACANDAGA RIVER NEAR HOPE, N.Y. (LAT 43 21 10 LONG 074 16 15)												
APR., 1971												
21...	1500	6490	5.0	4.0	.6	1.0	.2	6	0	8.0	1.1	.0
01327500 - GLENS FALLS FEEDER AT DUNHAM BASIN, N.Y. (LAT 43 18 15 LONG 073 32 49)												
APR., 1971												
29...	1330	170	6.0	10	1.6	3.6	.5	24	0	12	5.0	.1
01328000 - BOND CREEK AT DUNHAM BASIN, N.Y. (LAT 43 18 22 LONG 073 32 56)												
APR., 1971												
29...	1215	15	3.3	52	14	7.5	3.3	167	1	42	12	.2
01330820 - SPRING RUN AT GILBERT CORNERS, N.Y. (LAT 43 04 12 LONG 073 44 42)												
AUG., 1971												
25...	1830	9.2	8.7	30	4.8	2.6	.8	100	0	12	4.5	.1
01334500 - HOOSIC RIVER NEAR EAGLE BRIDGE, N.Y. (LAT 42 56 19 LONG 073 22 39)												
MAY , 1971												
04...	0800	6000	3.1	12	3.1	2.8	.8	37	0	12	4.0	.1
01335640 - BALLSTON CREEK AT ROUND LAKE, N.Y. (LAT 42 56 22 LONG 073 47 22)												
AUG., 1971												
26...	1700	.10	1.9	95	28	75	2.7	235	0	190	80	.2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
BLIND BROOK BASIN												
01300000 - BLIND BROOK AT RYE, N.Y. (LAT 40 59 00 LONG 073 41 14)												
SEP., 1971 14...	--	--	4.4	--	--	--	53	21	155	7.0	20.0	--
BEAVER SWAMP BROOK BASIN												
01300500 - BEAVER SWAMP BROOK AT MAMARONECK, N.Y. (LAT 40 57 21 LONG 073 43 07)												
JUNE, 1971 30...	.00	.00	4.8	--	282	--	170	84	502	7.2	25.0	--
AUG. 03...	--	3.1	8.4	--	223	--	120	64	374	7.0	30.0	--
SEP. 14...	--	--	5.3	--	123	--	57	24	198	6.9	20.0	--
MAMARONECK RIVER BASIN												
01301000 - MAMARONECK RIVER AT MAMARONECK, N.Y. (LAT 40 57 15 LONG 073 44 05)												
JUNE, 1971 02...	.10	--	3.8	353	291	80	155	93	567	8.2	15.0	4
AUG. 03...	--	--	5.3	--	--	--	100	52	340	7.1	24.0	--
SEP. 14...	--	--	3.9	--	--	--	63	28	214	7.1	20.0	--
BRONX RIVER BASIN												
01302000 - BRONX RIVER AT BRONXVILLE, N.Y. (LAT 40 56 10 LONG 073 50 10)												
JUNE, 1971 02...	.10	--	16	333	296	82	199	109	512	7.2	18.5	4
AUG. 28...	--	--	3.5	--	75	--	46	17	139	7.1	42.0	--
HUDSON RIVER BASIN												
01312000 - HUDSON RIVER NEAR NEWCOMB, N.Y. (LAT 43 58 00 LONG 074 07 55)												
APR., 1971 28...	.01	.07	2.7	48	34	14	18	11	51	6.6	1.5	17
01315500 - HUDSON RIVER AT NORTH CREEK, N.Y. (LAT 43 42 00 LONG 073 59 00)												
APR., 1971 28...	.01	.05	1.9	44	30	20	17	9	43	7.0	3.0	15
01316822 - CHESTER CREEK AT CHESTERTOWN, N.Y. (LAT 43 39 22 LONG 073 48 05)												
AUG., 1971 25...	.03	.13	1.3	--	80	--	55	11	133	7.6	16.0	--
01318500 - HUDSON RIVER AT HADLEY, N.Y. (LAT 43 19 10 LONG 073 50 40)												
APR., 1971 30...	.02	.13	1.2	44	30	18	18	9	48	7.0	3.0	15
01321000 - SACANDAGA RIVER NEAR HOPE, N.Y. (LAT 43 21 10 LONG 074 16 15)												
APR., 1971 21...	.01	.05	2.7	29	25	5	12	8	37	6.5	1.0	10
01327500 - GLENS FALLS FEEDER AT DUNHAM BASIN, N.Y. (LAT 43 18 15 LONG 073 32 49)												
APR., 1971 29...	.03	.20	1.6	71	52	20	31	12	89	7.1	5.0	23
01328000 - BOND CREEK AT DUNHAM BASIN, N.Y. (LAT 43 18 22 LONG 073 32 56)												
APR., 1971 29...	.28	.16	5.1	240	225	39	188	48	377	8.3	8.0	25
01330820 - SPRING RUN AT GILBERT CORNERS, N.Y. (LAT 43 04 12 LONG 073 44 42)												
AUG., 1971 25...	.03	.08	.8	--	114	--	95	13	192	7.6	14.0	--
01334500 - HOOSIC RIVER NEAR EAGLE BRIDGE, N.Y. (LAT 42 56 19 LONG 073 22 39)												
MAY , 1971 04...	.02	.38	3.7	77	60	21	42	12	102	7.4	10.0	10
01335640 - BALLSTON CREEK AT ROUND LAKE, N.Y. (LAT 42 56 22 LONG 073 47 22)												
AUG., 1971 26...	.00	.09	.0	--	588	--	350	160	939	8.1	20.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
HUDSON RIVER BASIN--Continued												
01335670 - COOLEY KILL AT ELNORA, N.Y. (LAT 42 53 24 LONG 073 48 52)												
AUG., 1971 26...	--	.02	9.0	50	10	11	1.4	158	0	34	17	.1
01335680 - LONG KILL NEAR JONESVILLE, N.Y. (LAT 42 53 47 LONG 073 47 30)												
AUG., 1971 26...	--	5.1	10	52	9.0	14	1.2	155	0	28	25	.1
* 01343900 - HINKLEY RESERVOIR AT HINKLEY, N.Y. (LAT 43 18 45 LONG 075 06 25)												
OCT., 1970 14...	1200	--	5.2	6.2	.0	.0	.2	12	0	8.0	2.2	.1
* 01347000 - MOHAWK RIVER NEAR LITTLE FALLS, N.Y. (LAT 43 00 52 LONG 074 46 48)												
OCT., 1970 15...	1030	1700	4.9	50	6.6	7.5	2.3	152	0	33	8.8	.1
* 01350000 - SCHOHARIE CREEK AT PRATTSVILLE, N.Y. (LAT 42 19 15 LONG 074 26 10)												
OCT., 1970 23...	1000	4770	2.5	7.0	.0	1.2	1.2	6	0	15	2.7	.0
01350180 - SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y. (LAT 42 27 57 LONG 074 27 45)												
JULY, 1971 23...	1100	2.7	4.3	30	4.3	12	1.3	90	0	28	13	.0
01350350 - KEYSER KILL AT BREAKABEEN, N.Y. (LAT 42 31 23 LONG 074 24 38)												
AUG., 1971 28...	1630	36	5.2	13	2.4	3.4	.9	39	0	13	3.3	.0
01350355 - SCHOHARIE CREEK AT BREAKABEEN, N.Y. (LAT 42 32 10 LONG 074 24 40)												
AUG., 1971 28...	1730	221	4.8	22	5.1	8.7	1.3	65	0	18	12	.1
* 01356400 - MOHAWK RIVER NEAR LATHAM, N.Y. (LAT 42 47 35 LONG 073 47 01)												
OCT., 1970 23...	1030	--	3.8	35	4.3	11	1.3	92	0	31	14	.1
01359513 - HUNGER KILL AT GUILDERLAND, N.Y. (LAT 42 41 22 LONG 073 54 26)												
AUG., 1971 23...	1300	140	4.1	26	6.4	12	2.6	72	0	20	24	.1
01359519 - NORMANSKILL CREEK NEAR WESTMERE, N.Y. (LAT 42 40 43 LONG 073 54 25)												
MAY , 1971 04...	0900	1650	2.4	30	5.8	12	1.3	82	0	30	18	.2
01359902 - COEYMANS CREEK AT SELKIRK, N.Y. (LAT 42 31 38 LONG 073 49 14)												
MAY , 1971 04...	1100	271	4.1	40	5.1	14	1.8	107	0	37	19	.1
* 01362500 - ESOPUS CREEK AT COLDBROOK, N.Y. (LAT 42 00 45 LONG 074 16 10)												
OCT., 1970 14...	1300	20	1.3	6.0	1.4	2.7	.6	24	0	7.5	3.6	.0
01367500 - RONDOUT CREEK AT ROSENDALE, N.Y. (LAT 41 50 35 LONG 074 05 10)												
APR., 1971 02...	1320	1130	2.6	10	1.9	3.1	.7	21	0	13	3.6	.0

* Minor element analyses for this site on page 242.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
HUDSON RIVER BASIN--Continued												
01335670 - COOLEY KILL AT ELNORA, N.Y. (LAT 42 53 24 LONG 073 48 52)												
AUG., 1971 26...	.00	.08	.0	--	210	--	170	36	353	8.1	27.5	--
01335680 - LONG KILL NEAR JONESVILLE, N.Y. (LAT 42 53 47 LONG 073 47 30)												
AUG., 1971 26...	.13	.08	7.5	--	223	--	170	40	383	8.1	15.0	--
01343900 - HINKLEY RESERVOIR AT HINKLEY, N.Y. (LAT 43 18 45 LONG 075 06 25)												
OCT., 1970 14...	.01	.12	.6	41	--	12	18	8	45	7.0	15.0	12
01347000 - MOHAWK RIVER NEAR LITTLE FALLS, N.Y. (LAT 43 00 52 LONG 074 46 48)												
OCT., 1970 15...	.01	.18	3.4	197	192	13	152	27	335	7.7	15.0	7
01350000 - SCHOHARIE CREEK AT PRATTSVILLE, N.Y. (LAT 42 19 15 LONG 074 26 10)												
OCT., 1970 23...	.05	.35	3.4	45	37	15	21	16	56	6.6	14.5	10
01350180 - SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y. (LAT 42 27 57 LONG 074 27 45)												
JULY, 1971 23...	.07	.27	1.3	--	139	--	93	19	243	8.0	23.5	--
01350350 - KEYSER KILL AT BREAKABEEN, N.Y. (LAT 42 31 23 LONG 074 24 38)												
AUG., 1971 28...	--	--	.4	--	60	--	42	10	106	7.4	18.0	--
01350355 - SCHOHARIE CREEK AT BREAKABEEN, N.Y. (LAT 42 32 10 LONG 074 24 40)												
AUG., 1971 28...	--	.58	1.3	--	106	--	76	23	171	7.8	19.0	--
01356400 - MOHAWK RIVER NEAR LATHAM, N.Y. (LAT 42 47 35 LONG 073 47 01)												
OCT., 1970 23...	.15	.67	2.3	165	149	4	105	30	271	7.9	14.5	--
01359513 - HUNGER KILL AT GUILDERLAND, N.Y. (LAT 42 41 22 LONG 073 54 26)												
AUG., 1971 23...	--	1.2	1.7	--	134	--	91	32	217	7.4	18.0	--
01359519 - NORMANSKILL CREEK NEAR WESTMERE, N.Y. (LAT 42 40 43 LONG 073 54 25)												
MAY , 1971 04...	.03	.15	.8	176	141	43	98	32	253	8.0	9.0	7
01359902 - COEYMANS CREEK AT SELKIRK, N.Y. (LAT 42 31 38 LONG 073 49 14)												
MAY , 1971 04...	.05	.19	2.4	198	176	42	121	33	305	8.0	7.0	20
01362500 - ESOPUS CREEK AT COLDBROOK, N.Y. (LAT 42 00 45 LONG 074 16 10)												
OCT., 1970 14...	.01	.06	.1	44	35	3	21	1	70	7.3	--	0
01367500 - RONDOUT CREEK AT ROSENDALE, N.Y. (LAT 41 50 35 LONG 074 05 10)												
APR., 1971 02...	.01	.09	2.0	81	47	40	32	16	93	7.2	4.5	17

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
HUDSON RIVER BASIN--Continued												
* 01368000 - WALLKILL R NEAR UNIONVILLE, N.Y.(OWENS, N.J.) (LAT 41 15 55 LONG 074 32 55)												
DEC., 1970 09...	--	116	--	37	12	--	--	116	0	37	31	--
MAR., 1971 05...	--	707	6.3	28	6.2	10	1.5	73	0	24	23	.3
MAY 19...	--	281	5.0	33	10	10	1.3	101	0	22	21	.2
JULY 14...	1330	30	--	41	21	--	--	185	0	29	25	--
AUG. 30...	1130	925	6.8	22	6.3	7.3	2.3	58	0	29	14	.1
SEP. 21...	--	260	8.5	33	9.5	11	2.2	106	0	29	21	.1
01368705 - WICKHAM LAKE TRIBUTARY AT LAKE, N.Y. (LAT 41 17 38 LONG 074 17 33)												
AUG., 1971 28...	1800	4.1	6.1	20	4.5	4.3	5.8	41	0	31	8.3	.1
01368724 - LONG HOUSE CREEK AT BELLVALE, N.Y. (LAT 41 18 30 LONG 074 15 10)												
AUG., 1971 28...	1230	350	3.8	5.1	1.6	1.9	.7	8	0	14	2.2	.1
01368727 - WAWAYANDA CREEK AT WARWICK, N.Y. (LAT 41 15 25 LONG 074 21 17)												
MAR., 1971 08...	1200	52	3.9	20	3.7	4.2	1.5	42	0	25	8.2	[illegible]
01368810 - WAWAYANDA CREEK AT NEW MILFORD, N.Y. (LAT 41 14 18 LONG 074 25 03)												
AUG., 1971 28...	1430	874	4.5	12	4.4	3.1	2.4	38	0	19	4.2	.1
01368840 - DOUBLE KILL AT NEW MILFORD, N.Y. (LAT 41 14 10 LONG 074 24 58)												
AUG., 1971 28...	1515	536	3.5	7.1	2.7	1.6	.9	21	0	15	2.4	.1
01369000 - POCHUCK CREEK NEAR PINE ISLAND, N.Y. (LAT 41 16 30 LONG 074 28 20)												
MAR., 1971 08...	1530	654	4.9	25	7.0	6.0	1.1	87	0	19	13	.1
AUG. 30...	1400	988	6.4	16	5.1	2.8	2.0	46	0	23	5.3	.1
01369500 - QUAKER CREEK AT FLORIDA, N.Y. (LAT 41 20 20 LONG 074 21 45)												
MAR., 1971 08...	1000	61	4.8	20	4.4	6.0	1.8	41	0	26	12	.2
AUG. 16...	0900	.38	7.9	48	8.8	17	3.8	169	0	29	30	.1
01369650 - STONY CREEK NEAR FLORIDA, N.Y. (LAT 41 18 06 LONG 074 23 14)												
AUG., 1971 28...	1650	31	5.0	14	4.1	3.8	2.7	36	0	26	4.2	.1
01369695 - COLEMAN DITCH NEAR PINE ISLAND, N.Y. (LAT 41 17 37 LONG 074 26 10)												
AUG., 1971 28...	0950	19	4.7	23	5.6	1.9	2.0	51	0	40	3.0	.3
01371500 - WALLKILL RIVER AT GARDINER, N.Y. (LAT 41 41 10 LONG 074 09 55)												
FEB., 1971 26...	0930	3890	4.9	15	3.1	5.6	1.2	29	0	24	12	.1
01372065 - CASPER CREEK NEAR WAPPINGERS FALLS, N.Y. (LAT 41 37 54 LONG 073 55 40)												
JAN., 1971 08...	1555	8.8	8.1	80	16	66	3.5	190	0	78	132	.1
MAR. 02...	1350	100	5.9	48	12	31	3.0	129	0	49	61	.1
AUG. 28...	1110	405	2.4	17	4.1	7.9	2.6	48	0	19	15	.1

* Minor element analyses for this site on page 242.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
HUDSON RIVER BASIN--Continued												
01368000 - WALLKILL R NEAR UNIONVILLE, N.Y.(OWENS, N.J.) (LAT 41 15 35 LONG 074 32 55)												
DEC., 1970 09...	--	--	5.6	--	--	--	142	47	357	8.1	--	7
MAR., 1971 05...	.03	.10	4.7	142	140	15	95	35	253	7.2	--	21
MAY 19...	--	--	2.8	191	155	--	124	41	279	8.1	--	20
JULY 14...	--	--	5.4	--	--	--	189	38	435	7.4	--	5
AUG. 30...	--	--	1.8	--	118	--	80	33	201	7.0	20.5	--
SEP. 21...	--	--	3.1	179	170	--	122	35	309	7.3	--	25
01368705 - WICKHAM LAKE TRIBUTARY AT LAKE, N.Y. (LAT 41 17 38 LONG 074 17 33)												
AUG., 1971 28...	--	--	10	--	111	--	68	35	179	7.0	21.0	--
01368724 - LONG HOUSE CREEK AT BELLVALE, N.Y. (LAT 41 18 30 LONG 074 15 10)												
AUG., 1971 28...	--	--	1.3	--	35	--	19	13	56	6.5	17.0	--
01368727 - WAWAYANDA CREEK AT WARWICK, N.Y. (LAT 41 15 25 LONG 074 21 17)												
MAR., 1971 08...	.28	.10	3.9	119	91	20	65	31	164	7.3	1.0	22
01368810 - WAWAYANDA CREEK AT NEW MILFORD, N.Y. (LAT 41 14 18 LONG 074 25 03)												
AUG., 1971 28...	--	--	2.6	--	71	--	48	17	118	7.0	19.5	--
01368840 - DOUBLE KILL AT NEW MILFORD, N.Y. (LAT 41 14 10 LONG 074 24 58)												
AUG., 1971 28...	--	--	.8	--	44	--	29	12	70	6.9	20.0	--
01369000 - POCHUCK CREEK NEAR PINE ISLAND, N.Y. (LAT 41 16 30 LONG 074 28 20)												
MAR., 1971 08...	.04	.01	3.2	146	122	32	91	20	224	7.9	1.0	16
AUG. 30...	--	--	1.7	--	85	--	61	23	136	7.0	25.5	--
01369500 - QUAKER CREEK AT FLORIDA, N.Y. (LAT 41 20 20 LONG 074 21 45)												
MAR., 1971 08...	.01	.05	7.8	119	103	17	68	34	182	7.2	1.0	18
AUG. 16...	--	.27	8.4	--	239	--	160	17	418	7.4	16.5	--
01369650 - STONY CREEK NEAR FLORIDA, N.Y. (LAT 41 18 06 LONG 074 23 14)												
AUG., 1971 28...	--	--	2.6	--	80	--	52	22	130	7.1	22.0	--
01369695 - COLEMAN DITCH NEAR PINE ISLAND, N.Y. (LAT 41 17 37 LONG 074 26 10)												
AUG., 1971 28...	--	--	1.7	--	107	--	80	39	171	7.1	18.0	--
01371500 - WALLKILL RIVER AT GARDINER, N.Y. (LAT 41 41 10 LONG 074 09 55)												
FEB., 1971 26...	.04	.16	3.7	101	86	27	50	26	143	7.2	.0	15
01372065 - CASPER CREEK NEAR WAPPINGERS FALLS, N.Y. (LAT 41 37 54 LONG 073 55 40)												
JAN., 1971 08...	.99	.37	5.6	495	484	58	266	110	875	7.9	.0	5
MAR. 02...	.34	.49	10	307	284	44	169	63	514	7.4	2.5	7
AUG. 28...	--	--	3.0	--	92	--	59	20	167	7.1	17.0	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
HUDSON RIVER BASIN--Continued												
01372200 - WAPPINGER CREEK NEAR CLINTON CORNERS, N.Y. (LAT 41 48 55 LONG 073 45 50)												
JAN., 1971 08...	1215	88	6.6	36	7.6	5.5	.9	96	0	29	10	.0
MAR. 02...	1130	690	5.9	23	5.8	3.8	.9	68	0	22	8.7	.1
01372300 - LITTLE WAPPINGER CREEK AT SALT POINT, N.Y. (LAT 41 48 20 LONG 073 47 35)												
JAN., 1971 08...	1350	43	7.1	29	4.9	5.7	.6	74	0	28	9.3	.0
MAR. 02...	1200	310	6.0	19	3.8	4.4	.8	53	0	12	11	.1
01373518 - BLACK MEADOW CREEK NEAR FLORIDA, N.Y. (LAT 41 19 59 LONG 074 19 10)												
AUG., 1971 28...	1725	93	4.1	7.0	1.6	1.7	1.9	11	0	19	1.6	.1
01373800 - MOODNA CREEK AT MOUNTAINVILLE, N.Y. (LAT 41 24 33 LONG 074 04 26)												
OCT., 1970 29...	1105	90	6.8	30	4.6	14	1.2	72	0	27	27	.1
01375000 - CROTON RIVER AT DAM NR CROTON-ON-HUDSON, N.Y. (LAT 41 13 30 LONG 073 51 35)												
OCT., 1970 06...	1450	.60	2.0	--	--	--	--	--	--	31	16	--
DEC. 14...	1630	E.53	11	36	8.5	9.0	2.2	118	0	18	25	.0
01376500 - SAW MILL RIVER AT YONKERS, N.Y. (LAT 40 56 11 LONG 073 53 12)												
JUNE, 1971 30...	1030	.55	11	77	20	40	11	150	0	71	140	1.1
AUG. 29...	1555	484	3.2	14	4.0	6.7	3.9	41	0	18	13	.1
SEP. 14...	1615	282	6.6	20	5.6	12	4.0	57	0	31	18	.1
DELAWARE RIVER BASIN												
* 01413500 - EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, N.Y (LAT 42 08 40 LONG 074 39 15)												
OCT., 1970 28...	1400	400	3.7	7.0	1.1	1.3	.5	17	0	10	1.8	.1
MAR., 1971 16...	1345	1970	3.0	7.0	1.1	3.0	1.0	16	0	10	5.0	.0
01414500 - MILL BROOK AT ARENA, N.Y. (LAT 42 06 25 LONG 074 43 45)												
MAR., 1971 16...	1100	220	2.0	5.0	.9	.5	.4	8	0	8.6	1.0	.0
01421548 - REXMERE LAKES OUTLET AT STAMFORD, N.Y. (LAT 42 24 21 LONG 074 37 28)												
NOV., 1970 0[illegible]...	1510	1.1	2.2	14	2.5	7.6	1.5	32	0	12	16	.1
AUG., 1971 17...	1120	.16	1.6	14	2.9	9.9	.7	38	0	11	15	.0
01421550 - WEST BRANCH DELAWARE RIVER AT STAMFORD, N.Y. (LAT 42 24 19 LONG 074 37 31)												
NOV., 1970 03...	1515	4.2	2.9	12	2.0	7.8	1.0	28	0	13	15	.1
AUG., 1971 17...	1115	.80	3.6	18	3.8	25	2.1	40	0	16	42	.0

* Minor element analyses for this site on page 242.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
HUDSON RIVER BASIN--Continued												
01372200 - WAPPINGER CREEK NEAR CLINTON CORNERS, N.Y. (LAT 41 48 55 LONG 073 45 50)												
JAN., 1971 08...	.06	.06	2.7	163	145	50	42	0	274	7.7	.0	2
MAR. 02...	.03	.04	5.5	135	75	22	81	26	193	7.6	2.0	10
01372300 - LITTLE WAPPINGER CREEK AT SALT POINT, N.Y. (LAT 41 48 20 LONG 073 47 35)												
JAN., 1971 08...	.03	.05	1.6	125	115	26	92	31	218	7.5	.0	1
MAR. 02...	.04	.06	4.5	111	87	14	63	20	168	7.5	1.5	6
01373518 - BLACK MEADOW CREEK NEAR FLORIDA, N.Y. (LAT 41 19 59 LONG 074 19 10)												
AUG., 1971 28...	--	--	1.7	--	--	--	24	15	68	6.3	20.0	--
01373800 - MOODNA CREEK AT MOUNTAINVILLE, N.Y. (LAT 41 24 33 LONG 074 04 26)												
OCT., 1970 29...	.18	.23	1.5	153	147	6	94	35	262	7.7	9.0	17
01375000 - CROTON RIVER AT DAM NR CROTON-ON-HUDSON, N.Y. (LAT 41 13 30 LONG 073 51 35)												
OCT., 1970 06...	--	--	--	--	49	--	--	--	--	--	17.0	--
DEC. 14...	.02	.12	.9	171	169	18	125	28	299	7.8	3.5	0
01376500 - SAW MILL RIVER AT YONKERS, N.Y. (LAT 40 56 11 LONG 073 53 12)												
JUNE, 1971 30...	.00	2.3	.0	--	447	--	280	150	804	6.9	26.0	--
AUG. 29...	--	.88	3.0	--	87	--	51	18	146	7.1	21.5	--
SEP. 14...	--	--	3.9	--	--	--	73	26	206	7.1	21.0	--
DELAWARE RIVER BASIN												
01413500 - EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, N.Y (LAT 42 08 40 LONG 074 39 15)												
OCT., 1970 28...	.01	.06	1.5	39	35	6	22	8	62	7.0	9.0	4
MAR., 1971 16...	.03	.11	3.3	62	41	20	22	9	72	7.0	4.0	8
01414500 - MILL BROOK AT ARENA, N.Y. (LAT 42 06 25 LONG 074 43 45)												
MAR., 1971 16...	.01	.04	3.5	29	25	80	16	10	44	6.9	2.0	6
01421548 - REXMERE LAKES OUTLET AT STAMFORD, N.Y. (LAT 42 24 21 LONG 074 37 28)												
NOV., 1970 03...	.19	.10	4.2	91	76	24	45	19	144	7.0	10.0	4
AUG., 1971 17...	--	--	3.9	--	78	--	47	16	146	7.2	19.5	--
01421550 - WEST BRANCH DELAWARE RIVER AT STAMFORD, N.Y. (LAT 42 24 19 LONG 074 37 31)												
NOV., 1970 03...	.03	.01	2.5	89	70	35	38	15	131	7.1	9.5	2
AUG., 1971 17...	--	2.8	12	--	146	--	61	28	260	6.8	16.5	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
DELAWARE RIVER BASIN--Continued												
01421610 - WEST BRANCH DELAWARE RIVER AT HOBART, N.Y. (LAT 42 22 16 LONG 074 40 16)												
NOV., 1970 03...	.02	.07	3.6	66	67	2	38	20	124	6.9	9.5	5
AUG., 1971 17...	--	--	11	--	112	--	55	16	205	7.2	18.0	--
01421620 - TOWN BROOK AT HOBART, N.Y. (LAT 42 22 08 LONG 074 40 38)												
NOV., 1970 03...	.02	.02	4.2	60	62	18	32	17	115	7.0	10.0	5
AUG., 1971 17...	--	--	8.8	--	85	--	56	21	151	7.2	20.0	--
01421995 - STEELE BROOK NEAR DELHI, N.Y. (LAT 42 17 27 LONG 074 55 55)												
NOV., 1970 04...	.01	.11	.5	54	42	22	31	13	85	6.8	10.0	5
AUG., 1971 17...	--	--	1.3	--	55	--	37	10	101	7.2	20.0	--
01422000 - WEST BRANCH DELAWARE RIVER AT DELHI, N.Y. (LAT 42 16 15 LONG 074 55 10)												
MAR., 1971 15...	.58	.24	7.3	78	54	28	28	13	93	6.9	4.0	12
01422500 - LITTLE DELAWARE RIVER NEAR DELHI, N.Y. (LAT 42 15 10 LONG 074 54 10)												
MAR., 1971 15...	.26	.21	4.5	46	41	14	23	11	58	6.8	3.5	11
01422750 - EAST BROOK AT WALTON, N.Y. (LAT 42 10 11 LONG 075 07 37)												
AUG., 1971 17...	--	--	2.6	--	44	--	27	9	77	7.0	21.5	--
01423000 - WEST BRANCH DELAWARE RIVER AT WALTON, N.Y. (LAT 42 10 00 LONG 075 08 25)												
MAR., 1971 15...	.25	.14	4.8	44	44	12	23	11	77	6.8	4.0	9
01425637 - BUTLER BK TRIB AT SECOND ST AT DEPOSIT, N.Y. (LAT 42 04 00 LONG 075 25 06)												
AUG., 1971 18...	--	--	.8	--	43	--	29	10	79	7.1	16.5	--
01425640 - BUTLER BROOK AT DEPOSIT, N.Y. (LAT 42 02 58 LONG 075 25 01)												
AUG., 1971 18...	--	--	2.2	--	62	--	41	13	111	7.3	16.0	--
01425700 - OQUAGA CREEK AT MCCLURE SETTLEMENT, N.Y. (LAT 42 03 33 LONG 075 29 42)												
AUG., 1971 18...	--	--	.4	--	46	--	31	9	85	7.0	21.0	--
01425800 - FLY CREEK AT MCCLURE SETTLEMENT, N.Y. (LAT 42 03 00 LONG 075 29 50)												
AUG., 1971 18...	--	--	1.3	--	67	--	38	13	121	7.2	17.0	--
01425995 - BONE CREEK AT DEPOSIT, N.Y. (LAT 42 03 34 LONG 075 25 48)												
AUG., 1971 17...	--	--	3.9	--	99	--	60	11	172	7.2	19.5	--
01426000 - OQUAGA CREEK AT DEPOSIT, N.Y. (LAT 42 03 31 LONG 075 25 42)												
MAR., 1971 15...	.09	.70	2.6	55	36	12	18	8	68	6.6	1.0	36

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
DELAWARE RIVER BASIN--Continued												
01421610 - WEST BRANCH DELAWARE RIVER AT HOBART, N.Y. (LAT 42 22 16 LONG 074 40 16)												
NOV., 1970 03...	1600	12	3.5	12	2.0	6.6	1.2	22	0	14	13	.0
AUG., 1971 17...	1300	3.1	3.1	16	3.6	16	2.5	47	0	14	23	.1
01421620 - TOWN BROOK AT HOBART, N.Y. (LAT 42 22 08 LONG 074 40 38)												
NOV., 1970 03...	1630	13	3.3	10	1.6	6.7	1.2	18	0	14	12	.1
AUG., 1971 17...	1345	1.0	1.2	17	3.2	5.7	2.5	42	0	15	11	.0
01421995 - STEELE BROOK NEAR DELHI, N.Y. (LAT 42 17 27 LONG 074 55 55)												
NOV., 1970 04...	1230	5.0	2.3	9.0	2.1	2.6	1.3	22	0	11	2.5	.0
AUG., 1971 17...	1445	.50	2.5	9.9	3.1	4.2	1.7	33	0	10	5.8	.0
01422000 - WEST BRANCH DELAWARE RIVER AT DELHI, N.Y. (LAT 42 16 15 LONG 074 55 10)												
MAR., 1971 15...	1345	980	2.8	8.5	1.8	3.6	2.1	19	0	11	7.1	.1
01422500 - LITTLE DELAWARE RIVER NEAR DELHI, N.Y. (LAT 42 15 10 LONG 074 54 10)												
MAR., 1971 15...	1420	562	2.6	7.0	1.4	2.4	1.4	15	0	10	4.7	.0
01422750 - EAST BROOK AT WALTON, N.Y. (LAT 42 10 11 LONG 075 07 37)												
AUG., 1971 17...	1445	4.7	3.2	7.0	2.2	3.2	1.5	21	0	10	3.8	.0
01423000 - WEST BRANCH DELAWARE RIVER AT WALTON, N.Y. (LAT 42 10 00 LONG 075 08 25)												
MAR., 1971 15...	1730	3020	3.0	7.0	1.5	3.0	1.2	15	0	11	5.3	.1
01425637 - BUTLER BK TRIB AT SECOND ST AT DEPOSIT, N.Y. (LAT 42 04 00 LONG 075 25 06)												
AUG., 1971 18...	0855	.06	1.5	8.0	2.2	2.7	1.3	23	0	11	4.1	.0
01425640 - BUTLER BROOK AT DEPOSIT, N.Y. (LAT 42 02 58 LONG 075 25 01)												
AUG., 1971 18...	0855	.24	3.0	11	3.4	4.1	2.1	35	0	12	6.5	.0
01425700 - OQUAGA CREEK AT MCCLURE SETTLEMENT, N.Y. (LAT 42 03 33 LONG 075 29 42)												
AUG., 1971 18...	1120	1.0	1.7	8.1	2.6	3.4	1.4	27	0	11	4.1	.0
01425800 - FLY CREEK AT MCCLURE SETTLEMENT, N.Y. (LAT 42 03 00 LONG 075 29 50)												
AUG., 1971 18...	1040	1.1	4.1	10	3.2	6.8	1.2	31	0	15	10	.1
01425995 - BONE CREEK AT DEPOSIT, N.Y. (LAT 42 03 34 LONG 075 25 48)												
AUG., 1971 17...	1700	.09	4.4	18	3.6	10	3.3	60	0	19	7.1	.1
01426000 - OQUAGA CREEK AT DEPOSIT, N.Y. (LAT 42 03 31 LONG 075 25 42)												
MAR., 1971 15...	1845	2030	2.5	5.5	1.1	2.2	2.1	13	0	9.0	4.6	.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
DELAWARE RIVER BASIN--Continued												
01427500 - CALLICOON CREEK AT CALLICOON, N.Y. (LAT 41 45 40 LONG 075 02 55)												
MAR., 1971												
01...	1415	650	2.6	8.5	1.4	3.2	1.4	13	0	13	5.6	.1
AUG.												
18...	1545	18	1.2	11	1.9	4.8	1.7	28	1	12	7.5	.1
01428000 - TENNILE RIVER AT TUSTEN, N.Y. (LAT 41 33 50 LONG 075 00 55)												
MAR., 1971												
02...	1145	280	3.8	4.5	1.3	2.5	.9	8	0	13	3.8	.1
AUG.												
19...	1300	3.7	3.1	5.4	1.7	3.0	1.1	13	0	11	3.1	.1
*01435000 - NEVERSINK RIVER NEAR CLARYVILLE, N.Y. (LAT 41 53 25 LONG 074 35 30)												
OCT., 1970												
21...	1110	65	2.1	4.0	.0	.0	.3	7	0	7.3	1.0	.1
01437000 - NEVERSINK RIVER AT OAKLAND VALLEY, N.Y. (LAT 41 29 45 LONG 074 38 45)												
MAR., 1971												
03...	1015	585	3.5	6.3	1.1	4.9	.8	8	0	11	8.4	.2
01437500 - NEVERSINK RIVER AT GODEFFROY, N.Y. (LAT 41 26 30 LONG 074 36 10)												
MAR., 1971												
03...	1530	1210	3.5	6.0	1.1	4.2	.6	9	0	10	7.6	.2
SUSQUEHANNA RIVER BASIN												
01496364 - OCQUIONIS CREEK AT RICHFIELD SPRINGS, N.Y. (LAT 42 51 03 LONG 074 59 38)												
MAY , 1971												
05...	1730	233	.8	54	4.1	1.6	1.0	165	2	11	3.1	1.0
01498500 - CHARLOTTE CREEK AT WEST DAVENPORT, N.Y. (LAT 42 26 42 LONG 074 57 50)												
MAR., 1971												
16...	1210	1510	3.2	5.5	1.1	2.4	1.1	11	0	11	4.2	.0
01500990 - CENTER BROOK AT NEW BERLIN, N.Y. (LAT 42 38 39 LONG 075 19 48)												
JULY, 1971												
23...	1325	.53	1.7	28	2.6	3.6	1.5	68	7	13	6.2	.1
01502500 - UNADILLA RIVER AT ROCKDALE, N. Y. (LAT 42 22 40 LONG 075 24 23)												
MAR., 1971												
03...	1530	2070	3.9	24	1.8	2.7	1.0	62	0	13	4.3	.1
01502632 - SUSQUEHANNA RIVER AT BAINBRIDGE, N.Y. (LAT 42 17 29 LONG 075 28 36)												
MAR., 1971												
03...	1335	7490	3.9	16	1.7	2.8	1.0	43	0	12	4.3	.1
01502680 - BIG BROOK NEAR BENNETTSVILLE, N.Y. (LAT 42 15 40 LONG 075 28 25)												
JULY, 1971												
22...	1500	.76	3.8	10	3.0	4.3	1.9	34	0	10	5.0	.0
01502720 - SAGE CREEK AT OUAQUAGA, N.Y. (LAT 42 07 04 LONG 075 39 22)												
JULY, 1971												
22...	1330	.29	2.0	7.5	2.3	4.1	1.4	28	0	9.8	3.3	.1
01502740 - TUSCARORA CREEK AT DAMASCUS, N.Y. (LAT 42 03 20 LONG 075 36 46)												
JULY, 1971												
22...	1230	.24	2.2	12	4.0	12	2.0	29	0	15	21	.1
01503300 - PARK CREEK NEAR BINGHAMTON, N.Y. (LAT 42 05 38 LONG 075 48 29)												
JULY, 1971												
22...	1100	.15	2.4	26	6.4	25	2.4	52	0	19	56	.1

* Minor element analyses for this site on page 242.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONO-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
DELAWARE RIVER BASIN--Continued												
01427500 - CALLICOON CREEK AT CALLICOON, N.Y. (LAT 41 45 40 LONG 075 02 55)												
MAR., 1971 01...	.05	.08	6.0	66	48	4	26	16	86	6.9	.0	7
AUG. 18...	--	--	3.0	--	38	--	35	11	109	8.6	26.0	--
01428000 - TENMILE RIVER AT TUSTEN, N.Y. (LAT 41 33 50 LONG 075 00 55)												
MAR., 1971 02...	.01	.05	1.9	56	35	16	16	10	59	6.5	.0	7
AUG. 19...	--	--	1.3	--	36	--	20	10	63	6.8	20.0	--
01435000 - NEVERSINK RIVER NEAR CLARYVILLE, N.Y. (LAT 41 53 25 LONG 074 35 30)												
OCT., 1970 21...	.00	.10	.4	23	20	8	13	7	35	6.5	10.0	0
01437000 - NEVERSINK RIVER AT OAKLAND VALLEY, N.Y. (LAT 41 29 45 LONG 074 38 45)												
MAR., 1971 03...	.01	.08	2.0	53	42	10	20	14	76	6.6	.0	7
01437500 - NEVERSINK RIVER AT GODEFFROY, N.Y. (LAT 41 26 30 LONG 074 36 10)												
MAR., 1971 03...	.02	.11	1.5	37	39	11	19	12	71	6.9	.0	7
SUSQUEHANNA RIVER BASIN												
01496364 - OCQUIONIS CREEK AT RICHFIELD SPRINGS, N.Y. (LAT 42 51 03 LONG 074 59 38)												
MAY , 1971 05...	.03	.06	3.9	190	166	29	152	13	293	8.3	9.0	10
01498500 - CHARLOTTE CREEK AT WEST DAVENPORT, N.Y. (LAT 42 26 42 LONG 074 57 50)												
MAR., 1971 16...	.04	.27	3.6	35	37	8	18	9	59	6.7	1.0	8
01500990 - CENTER BROOK AT NEW BERLIN, N.Y. (LAT 42 38 39 LONG 075 19 48)												
JULY, 1971 23...	.00	.04	.4	--	98	--	81	13	166	9.0	26.5	--
01502500 - UNADILLA RIVER AT ROCKDALE, N. Y. (LAT 42 22 40 LONG 075 24 23)												
MAR., 1971 03...	.01	.06	4.8	117	86	27	67	16	151	8.0	2.0	7
01502632 - SUSQUEHANNA RIVER AT BAINBRIDGE, N.Y. (LAT 42 17 29 LONG 075 28 36)												
MAR., 1971 03...	.01	.09	4.3	72	67	11	46	12	122	7.6	1.5	6
01502680 - BIG BROOK NEAR BENNETTSVILLE, N.Y. (LAT 42 15 40 LONG 075 28 25)												
JULY, 1971 22...	.00	.04	.8	--	56	--	37	9	102	7.2	23.0	--
01502720 - SAGE CREEK AT OUAQUAGA, N.Y. (LAT 42 07 04 LONG 075 39 22)												
JULY, 1971 22...	.00	.01	.0	--	44	--	28	5	84	7.4	21.0	--
01502740 - TUSCARORA CREEK AT DAMASCUS, N.Y. (LAT 42 03 20 LONG 075 36 46)												
JULY, 1971 22...	.00	.06	.4	--	83	--	46	23	158	7.4	21.0	--
01503300 - PARK CREEK NEAR BINGHAMTON, N.Y. (LAT 42 05 30 LONG 075 48 20)												
JULY, 1971 22...	.00	.00	1.3	--	166	--	91	49	327	7.6	20.5	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
SUSQUEHANNA RIVER BASIN--Continued												
* 01503495 - SUSQUEHANNA R AT TOMPKINS ST BINGHAMTON, N.Y. (LAT 42 06 06 LONG 075 55 50)												
OCT., 1970												
22...	1500	8885	2.0	20	2.6	4.4	1.2	60	0	18	7.0	.1
01503980 - CHENANGO RIVER AT EATON, N.Y. (LAT 42 51 02 LONG 075 36 21)												
JULY, 1971												
23...	0840	8.2	1.0	55	12	12	1.6	204	0	15	18	.1
01504780 - SANGERFIELD RIVER NEAR EARLVILLE, N.Y. (LAT 42 43 05 LONG 075 32 26)												
JULY, 1971												
23...	1010	31	4.1	42	5.5	7.7	1.4	131	0	23	3.7	.0
01504900 - HANDSOME BROOK AT SHERBURNE, N.Y. (LAT 42 41 26 LONG 075 30 15)												
JULY, 1971												
23...	1125	7.0	2.7	26	3.1	3.0	1.2	75	0	12	3.7	.1
01505000 - CHENANGO RIVER AT SHERBURNE, N.Y. (LAT 42 40 43 LONG 075 30 39)												
MAR., 1971												
01...	1945	1350	3.8	31	3.5	3.4	1.2	93	0	13	6.4	.1
01507000 - CHENANGO RIVER AT GREENE, N.Y. (LAT 42 19 28 LONG 075 46 18)												
MAR., 1971												
03...	1000	2820	3.9	24	3.0	3.8	1.1	71	0	13	6.6	.1
01510000 - OTSELIC RIVER AT CINCINNATUS, N.Y. (LAT 42 32 30 LONG 075 54 00)												
MAR., 1971												
01...	1015	819	3.8	12	1.7	2.3	.9	28	0	10	4.2	.0
01511500 - TIOUGHNIOGA RIVER AT ITASKA, N.Y. (LAT 42 17 55 LONG 075 54 30)												
MAR., 1971												
02...	1010	4200	3.7	17	2.2	3.9	1.0	44	0	11	7.4	.1
01512500 - CHENANGO RIVER NEAR CHENANGO FORKS, N.Y. (LAT 42 13 05 LONG 075 50 55)												
MAR., 1971												
02...	1850	7880	3.7	20	2.4	3.5	1.1	53	0	11	6.3	.1
* 01513500 - SUSQUEHANNA RIVER AT VESTAL, N.Y. (LAT 42 05 30 LONG 076 03 25)												
OCT., 1970												
22...	1830	2420	2.0	27	3.6	6.1	1.3	80	0	17	9.3	.1
MAR., 1971												
02...	1500	25300	3.6	16	2.1	4.2	1.2	40	0	11	7.8	.1
01514900 - WAPPASENING CREEK AT NICHOLS, N.Y. (LAT 42 01 17 LONG 076 21 45)												
AUG., 1971												
09...	1510	3.8	2.1	11	3.3	5.3	2.1	32	0	14	9.7	.1
01520500 - TIOGA RIVER AT LINDLEY, N.Y. (LAT 42 01 44 LONG 077 07 57)												
MAR., 1971												
15...	1100	6870	3.3	13	2.1	3.5	1.8	26	0	20	6.7	.1
01531000 - CHEMUNG RIVER AT CHEMUNG, N.Y. (LAT 42 00 10 LONG 076 38 06)												
MAR., 1971												
18...	1255	11800	4.4	17	3.0	12	1.5	40	0	23	21	.1

* Minor element analyses for this site on page 242.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
SUSQUEHANNA RIVER BASIN--Continued												
01503495 - SUSQUEHANNA R AT TOMPKINS ST BINGHAMTON, N.Y. (LAT 42 06 06 LONG 075 55 50)												
OCT., 1970 22...	.02	.11	1.6	88	87	6	60	11	158	7.6	15.0	300
01503980 - CHENANGO RIVER AT EATON, N.Y. (LAT 42 51 02 LONG 075 36 21)												
JULY, 1971 23...	.03	.01	3.0	--	218	--	190	19	400	8.1	17.5	--
01504780 - SANGERFIELD RIVER NEAR EARLVILLE, N.Y. (LAT 42 43 05 LONG 075 32 26)												
JULY, 1971 23...	.03	.05	1.7	--	154	--	130	20	262	7.9	19.0	--
01504900 - HANDSOME BROOK AT SHERBURNE, N.Y. (LAT 42 41 26 LONG 075 30 15)												
JULY, 1971 23...	.00	.01	1.3	--	90	--	78	16	168	7.7	19.5	--
01505000 - CHENANGO RIVER AT SHERBURNE, N.Y. (LAT 42 40 43 LONG 075 30 39)												
MAR., 1971 01...	.02	.70	5.2	132	114	15	91	16	207	7.7	2.5	12
01507000 - CHENANGO RIVER AT GREENE, N.Y. (LAT 42 19 28 LONG 075 46 18)												
MAR., 1971 03...	.01	.06	5.0	100	95	20	72	14	171	7.8	2.0	8
01510000 - OTSELIC RIVER AT CINCINNATUS, N.Y. (LAT 42 32 30 LONG 075 54 00)												
MAR., 1971 01...	.02	.06	3.8	70	52	12	36	14	91	7.5	1.0	11
01511500 - TIOUGHNIOGA RIVER AT ITASKA, N.Y. (LAT 42 17 55 LONG 075 54 30)												
MAR., 1971 02...	.02	.06	4.3	88	72	19	51	15	133	7.8	2.0	9
01512500 - CHENANGO RIVER NEAR CHENANGO FORKS, N.Y. (LAT 42 13 05 LONG 075 50 55)												
MAR., 1971 02...	.02	.07	4.0	94	78	16	59	16	142	7.4	2.5	11
01513500 - SUSQUEHANNA RIVER AT VESTAL, N.Y. (LAT 42 05 30 LONG 076 03 25)												
OCT., 1970 22...	.64	.37	2.5	117	108	12	82	16	205	7.5	15.0	5
MAR., 1971 02...	.02	.07	4.1	91	69	20	48	16	126	7.1	2.0	13
01514900 - WAPPASENING CREEK AT NICHOLS, N.Y. (LAT 42 01 17 LONG 076 21 45)												
AUG., 1971 09...	.00	.06	.0	--	63	--	41	15	118	7.5	24.0	--
01520500 - TIOGA RIVER AT LINDLEY, N.Y. (LAT 42 01 44 LONG 077 07 57)												
MAR., 1971 15...	.20	.23	2.6	80	66	7	41	20	112	7.0	2.0	19
01531000 - CHEMUNG RIVER AT CHEMUNG, N.Y. (LAT 42 00 10 LONG 076 38 06)												
MAR., 1971 18...	.05	.19	3.3	120	105	22	54	22	188	7.3	2.0	16

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
ALLEGHENY RIVER BASIN												
03011020 - ALLEGHENY RIVER NEAR SALAMANCA, N.Y. (LAT 42 09 23 LONG 078 42 56)												
MAR., 1971 18...	1000	11200	4.0	8.0	1.7	5.5	1.1	18	0	13	10	.1
03014670 - CONEWANGO CREEK AT FENTONVILLE, N.Y. (LAT 42 01 23 LONG 079 09 36)												
MAR., 1971 17...	1600	5230	2.6	14	2.0	2.9	1.1	40	0	10	6.5	.1
STREAMS TRIBUTARY TO LAKE ERIE												
04213318 - CHAUTAUQUA CREEK AT WESTFIELD, N.Y. (LAT 42 19 00 LONG 079 34 45)												
AUG., 1971 11...	1730	1.9	3.4	55	11	7.0	2.2	144	3	62	11	.1
04213420 - ELTON CREEK AT THE FORKS, N.Y. (LAT 42 31 05 LONG 078 31 00)												
AUG., 1971 18...	1850	21	5.0	52	10	3.6	1.3	174	2	23	5.2	.1
04213490 - SOUTH BRANCH CATTARAUGUS CREEK NEAR OTTO, N.Y (LAT 42 21 54 LONG 078 48 06)												
AUG., 1971 18...	1720	2.2	3.6	50	9.0	11	2.4	163	0	25	18	.1
04214010 - CLEAR CREEK NEAR IROQUOIS, N.Y. (LAT 42 32 34 LONG 079 00 30)												
AUG., 1971 18...	1540	4.4	5.1	50	13	9.7	2.6	163	0	48	14	.1
04214030 - MUDDY CREEK NEAR FARNHAM, N.Y. (LAT 42 36 54 LONG 079 04 54)												
AUG., 1971 18...	1500	.01	1.6	56	13	44	3.4	180	0	40	58	.2
04214040 - DELAWARE CREEK NEAR ANGOLA, N.Y. (LAT 42 37 46 LONG 079 03 15)												
AUG., 1971 18...	1420	.29	2.7	54	11	14	3.3	139	0	59	22	.1
04214060 - BIG SISTER CREEK AT EVANS CENTER, N.Y. (LAT 42 39 24 LONG 079 02 09)												
AUG., 1971 18...	1310	.59	.5	59	13	180	13	181	0	47	280	.9
04214230 - S BR EIGHTEENMILE CREEK AT EDEN VALLEY, N.Y. (LAT 42 40 34 LONG 078 52 26)												
AUG., 1971 18...	1125	1.0	.7	48	12	12	3.0	124	0	57	20	.2
04214250 - SMOKE CREEK AT LACKAWANNA, N.Y. (LAT 42 49 21 LONG 078 48 10)												
AUG., 1971 17...	1645	.17	2.5	79	18	60	6.0	159	0	100	100	.5
04214410 - HUNTER CREEK AT COLEGRAVE, N.Y. (LAT 42 44 11 LONG 078 32 55)												
AUG., 1971 19...	0930	.21	2.7	58	7.6	8.9	2.2	190	0	37	14	.1
04214980 - LITTLE BUFFALO CREEK AT EAST LANCASTER, N.Y. (LAT 42 52 46 LONG 078 36 27)												
AUG., 1971 17...	1755	1.1	3.0	62	12	13	2.7	193	0	40	24	.2
04215250 - WEST BRANCH CAZENOVIA C NR EAST AURORA, N.Y. (LAT 42 45 16 LONG 078 39 06)												
AUG., 1971 18...	0955	3.5	.8	52	12	13	2.4	145	0	54	17	.1
04215350 - EAST BRANCH CAZENOVIA CREEK AT SOUTH WALES, N.Y. (LAT 42 42 12 LONG 078 34 50)												
AUG., 1971 19...	0720	6.3	2.5	45	10	9.4	1.6	147	0	32	15	.1
* 04215800 - BUFFALO RIVER AT MICHIGAN AVE AT BUFFALO, N.Y. (LAT 42 52 17 LONG 078 52 23)												
OCT., 1970 14...	1745	--	1.5	48	7.6	27	4.4	116	0	62	40	.6

* Minor element analyses for this site on page 242.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
ALLEGHENY RIVER BASIN												
03011020 - ALLEGHENY RIVER NEAR SALAMANCA, N.Y. (LAT 42 09 23 LONG 078 42 56)												
MAR., 1971 18...	.04	.19	2.0	74	54	25	26	12	96	7.0	2.0	12
03014670 - CONEWANGO CREEK AT FENTONVILLE, N.Y. (LAT 42 01 23 LONG 079 09 36)												
MAR., 1971 17...	.07	.29	2.3	79	61	20	43	10	112	7.3	1.0	21
STREAMS TRIBUTARY TO LAKE ERIE												
04213318 - CHAUTAUQUA CREEK AT WESTFIELD, N.Y. (LAT 42 19 00 LONG 079 34 45)												
AUG., 1971 11...	.00	.01	.4	--	226	--	180	60	380	8.3	25.0	--
04213420 - ELTON CREEK AT THE FORKS, N.Y. (LAT 42 31 05 LONG 078 31 00)												
AUG., 1971 18...	.00	.00	2.6	--	190	--	170	25	324	8.3	23.5	--
04213490 - SOUTH BRANCH CATTARAUGUS CREEK NEAR OTTO, N.Y (LAT 42 21 54 LONG 078 48 06)												
AUG., 1971 18...	.03	.04	2.6	--	202	--	160	28	352	8.2	25.5	--
04214010 - CLEAR CREEK NEAR IROQUOIS, N.Y. (LAT 42 32 34 LONG 079 00 30)												
AUG., 1971 18...	.03	.10	.4	--	223	--	180	45	435	8.2	24.5	--
04214030 - MUDDY CREEK NEAR FARNHAM, N.Y. (LAT 42 36 54 LONG 079 04 54)												
AUG., 1971 18...	.30	.12	.8	--	306	--	190	46	547	7.9	24.0	--
04214040 - DELAWARE CREEK NEAR ANGOLA, N.Y. (LAT 42 37 46 LONG 079 03 15)												
AUG., 1971 18...	.03	.00	2.6	--	237	--	180	66	401	8.1	21.0	--
04214060 - BIG SISTER CREEK AT EVANS CENTER, N.Y. (LAT 42 39 24 LONG 079 02 09)												
AUG., 1971 18...	4.9	1.2	5.7	--	694	--	200	52	1240	7.6	23.0	--
04214230 - S BR EIGHTEENMILE CREEK AT EDEN VALLEY, N.Y. (LAT 42 40 34 LONG 078 52 26)												
AUG., 1971 18...	.07	.18	2.6	--	217	--	170	68	380	7.6	22.0	--
04214250 - SMOKE CREEK AT LACKAWANNA, N.Y. (LAT 42 49 21 LONG 078 48 10)												
AUG., 1971 17...	.86	.04	1.3	--	446	--	270	140	774	7.9	23.0	--
04214410 - HUNTER CREEK AT COLEGRAVE, N.Y. (LAT 42 44 11 LONG 078 32 55)												
AUG., 1971 19...	.03	.10	.0	--	224	--	180	20	398	8.2	18.5	--
04214980 - LITTLE BUFFALO CREEK AT EAST LANCASTER, N.Y. (LAT 42 52 46 LONG 078 36 27)												
AUG., 1971 17...	.13	.06	.8	--	253	--	200	46	435	8.2	25.5	--
04215250 - WEST BRANCH CAZENOVIA C NR EAST AURORA, N.Y. (LAT 42 45 16 LONG 078 39 06)												
AUG., 1971 18...	.00	.03	.0	--	223	--	180	60	384	8.2	17.0	--
04215350 - EAST BRANCH CAZENOVIA CREEK AT SOUTH WALES, N.Y. (LAT 42 42 12 LONG 078 34 50)												
AUG., 1971 19...	.03	.14	1.7	--	190	--	150	33	336	8.0	15.5	--
04215800 - BUFFALO RIVER AT MICHIGAN AVE AT BUFFALO, N.Y. (LAT 42 52 17 LONG 078 52 23)												
OCT., 1970 14...	.04	.45	20	280	268	27	151	56	465	7.3	20.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
STREAMS TRIBUTARY TO NIAGARA RIVER												
04216400 - TONAWANDA CREEK NEAR JOHNSONBURG, N.Y. (LAT 42 43 05 LONG 078 19 18)												
AUG., 1971 19...	1100	4.6	4.2	60	14	4.0	1.2	205	4	32	8.5	.1
04217000 - TONAWANDA CREEK AT BATAVIA, N.Y. (LAT 42 59 51 LONG 078 11 20)												
MAR., 1971 16...	1350	3400	3.1	31	3.3	4.7	3.0	94	0	16	10	.1
04217700 - MURDER CREEK AT PEMBROKE, N.Y. (LAT 42 59 37 LONG 078 26 08)												
AUG., 1971 17...	1205	.15	3.3	80	19	28	3.7	276	0	22	56	.2
04218200 - RANSOM CREEK NEAR WENDELVILLE, N.Y. (LAT 43 03 08 LONG 078 44 23)												
AUG., 1971 17...	1445	2.1	2.8	415	53	38	4.0	165	0	980	73	1.0
04218610 - ERIE (BARGE) CANAL AT GASPORT, N.Y. (LAT 43 11 58 LONG 078 34 35)												
OCT., 1970 02...	0935	1048	2.0	57	8.4	17	2.1	136	0	65	33	.2
04218700 - ERIE CANAL(W OF GENESEE R) AT ROCHESTER, N.Y. (LAT 43 07 33 LONG 077 39 04)												
OCT., 1970 01...	1145	759	.7	58	8.2	18	2.0	128	0	66	34	.2
04218740 - E CANAL (E OF GENESEE R) AT ROCHESTER, N.Y. (LAT 43 07 01 LONG 077 38 01)												
OCT., 1970 01...	1215	355	1.4	61	9.2	21	2.2	140	0	72	40	.2
ST. LAWRENCE RIVER MAIN STEM												
* 04219350 - NIAGARA RIVER AT NIAGARA FALLS, N.Y. (LAT 43 03 40 LONG 079 00 12)												
OCT., 1970 13...	1645	--	.1	41	6.3	12	1.1	104	1	26	25	.1
† 04219640 - LAKE ONTARIO (NIAGARA R) AT YOUNGSTOWN, N.Y. (LAT 43 11 58 LONG 075 23 24)												
OCT., 1970 13...	1015	--	.2	39	6.3	12	1.2	104	1	25	25	.2
STREAMS TRIBUTARY TO LAKE ONTARIO												
04220370 - CRYDER CREEK AT PAYNESVILLE, N.Y. (LAT 42 00 29 LONG 077 50 30)												
AUG., 1971 18...	1025	3.2	1.6	18	5.5	7.9	1.6	69	0	12	15	.1
04220390 - MARSH CREEK AT MAPES, N.Y. (LAT 42 02 54 LONG 077 55 53)												
AUG., 1971 18...	1150	.14	.4	34	8.0	28	2.2	67	0	9.8	79	.1
04220410 - FORD BROOK AT STANNARDS, N.Y. (LAT 42 04 03 LONG 077 55 43)												
AUG., 1971 18...	1310	.81	2.9	28	9.6	56	2.1	119	0	6.0	87	.1
04220430 - CHENUNDA CREEK AT STANNARDS, N.Y. (LAT 42 05 06 LONG 077 54 36)												
AUG., 1971 18...	1415	1.0	1.0	16	3.2	22	1.6	59	10	14	18	.2
04220450 - DYKE CREEK NEAR WEST GREENWOOD, N.Y. (LAT 42 08 41 LONG 077 44 07)												
AUG., 1971 18...	1600	.06	5.0	15	4.0	19	1.6	65	0	11	20	.1
04220455 - QUIG HOLLOW BROOK NEAR ANDOVER, N.Y. (LAT 42 08 45 LONG 077 45 25)												
AUG., 1971 18...	1645	.03	4.9	14	4.9	19	2.5	80	0	16	12	.1
04220465 - RAILROAD BROOK NEAR ALFRED, N.Y. (LAT 42 12 51 LONG 077 47 47)												
AUG., 1971 18...	1745	.00	5.6	36	9.5	28	3.0	165	0	34	16	.1

* Minor element analyses for this site on page 242.

† Minor element analyses for this site on page 243.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
STREAMS TRIBUTARY TO NIAGARA RIVER												
04216400 - TONAWANDA CREEK NEAR JOHNSONBURG, N.Y. (LAT 42 43 05 LONG 078 19 18)												
AUG., 1971 19...	.03	.08	1.7	--	231	--	210	33	390	8.3	18.0	--
04217000 - TONAWANDA CREEK AT BATAVIA, N.Y. (LAT 42 59 51 LONG 078 11 20)												
MAR., 1971 16...	.38	1.2	3.7	144	123	24	90	14	208	7.9	.5	47
04217700 - MURDER CREEK AT PEMBROKE, N.Y. (LAT 42 59 37 LONG 078 26 08)												
AUG., 1971 17...	.13	.12	.8	--	349	--	280	52	620	8.1	20.0	--
04218200 - RANSOM CREEK NEAR WENDELVILLE, N.Y. (LAT 43 03 08 LONG 078 44 23)												
AUG., 1971 17...	.07	.08	.8	--	1650	--	1300	1100	2000	7.9	20.0	--
04218610 - ERIE (BARGE) CANAL AT GASPORT, N.Y. (LAT 43 11 58 LONG 078 34 35)												
OCT., 1970 02...	.56	.37	2.2	278	255	53	177	65	460	7.7	16.0	5
04218700 - ERIE CANAL(W OF GENESEE R) AT ROCHESTER, N.Y. (LAT 43 07 33 LONG 077 39 04)												
OCT., 1970 01...	.17	.27	1.8	287	252	43	178	73	457	7.8	17.0	2
04218740 - E CANAL (E OF GENESEE R) AT ROCHESTER, N.Y. (LAT 43 07 01 LONG 077 38 01)												
OCT., 1970 01...	.28	.26	1.9	300	278	45	190	75	500	7.8	16.0	0
ST. LAWRENCE RIVER MAIN STEM												
04219350 - NIAGARA RIVER AT NIAGARA FALLS, N.Y. (LAT 43 03 40 LONG 079 00 12)												
OCT., 1970 13...	.06	.10	.2	185	174	29	128	41	316	8.3	18.0	0
04219640 - LAKE ONTARIO (NIAGARA R) AT YOUNGSTOWN, N.Y. (LAT 43 11 58 LONG 075 23 24)												
OCT., 1970 13...	.15	.10	.3	180	161	13	124	37	320	8.3	17.5	0
STREAMS TRIBUTARY TO LAKE ONTARIO												
04220370 - CRYDER CREEK AT PAYNESVILLE, N.Y. (LAT 42 00 29 LONG 077 50 30)												
AUG., 1971 18...	.07	.10	.4	--	96	--	68	11	182	7.6	19.0	--
04220390 - MARSH CREEK AT MAPES, N.Y. (LAT 42 02 54 LONG 077 55 53)												
AUG., 1971 18...	.13	.09	.4	--	195	--	120	63	391	7.3	19.0	--
04220410 - FORD BROOK AT STANNARDS, N.Y. (LAT 42 04 03 LONG 077 55 43)												
AUG., 1971 18...	.00	.12	.0	--	250	--	110	12	471	8.1	25.0	--
04220430 - CHENUNDA CREEK AT STANNARDS, N.Y. (LAT 42 05 06 LONG 077 54 36)												
AUG., 1971 18...	.03	.08	.0	--	115	--	53	0	182	9.4	29.0	--
04220450 - DYKE CREEK NEAR WEST GREENWOOD, N.Y. (LAT 42 08 41 LONG 077 44 07)												
AUG., 1971 18...	.03	.08	.4	--	108	--	54	1	193	7.8	23.0	--
04220455 - QUIG HOLLOW BROOK NEAR ANDOVER, N.Y. (LAT 42 08 45 LONG 077 45 25)												
AUG., 1971 18...	.00	.84	.8	--	114	--	55	0	173	7.3	22.0	--
04220465 - RAILROAD BROOK NEAR ALFRED, N.Y. (LAT 42 12 51 LONG 077 47 47)												
AUG., 1971 18...	.00	.04	.8	--	214	--	130	0	359	8.1	18.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04221200 - BRIMMER BROOK NEAR WELLSVILLE, N.Y. (LAT 42 07 30 LONG 077 58 43)												
AUG., 1971 18...	0845	1.2	.6	28	6.2	42	1.8	98	0	8.0	68	.1
04221500 - GENESEE RIVER AT SCIO, N.Y. (LAT 42 09 50 LONG 077 58 50)												
MAR., 1971 16...	1130	4230	3.2	7.0	1.7	3.2	1.8	13	0	14	6.5	.1
04221510 - VANDERMARK CREEK NEAR SCIO, N.Y. (LAT 42 10 02 LONG 077 57 31)												
AUG., 1971 18...	0715	.04	2.5	24	6.5	9.0	1.7	78	0	15	22	.1
04221520 - KNIGHT CREEK AT SCIO, N.Y. (LAT 42 10 15 LONG 077 59 17)												
AUG., 1971 17...	1900	1.1	1.9	33	8.8	92	2.2	111	0	13	140	.2
04221560 - PHILLIPS CREEK NEAR BELMONT, N.Y. (LAT 42 14 23 LONG 078 00 54)												
AUG., 1971 17...	1735	.70	4.4	36	6.8	9.8	2.6	139	0	16	8.4	.1
04221650 - BLACK CREEK AT BENNETTS, N.Y. (LAT 42 19 19 LONG 077 56 32)												
AUG., 1971 17...	1600	.46	2.0	25	4.6	3.6	1.2	93	0	10	4.3	.2
04221710 - BAKER CREEK NEAR ANGELICA, N.Y. (LAT 42 18 31 LONG 078 02 38)												
AUG., 1971 17...	1445	.39	3.8	42	7.9	7.1	1.8	152	3	22	6.2	.1
04221760 - WHITE CREEK NEAR BELFAST, N.Y. (LAT 42 18 53 LONG 078 06 28)												
AUG., 1971 17...	1350	.06	4.1	44	10	3.6	2.6	139	2	41	3.0	.1
04221810 - WIGWAM CREEK AT BELFAST, N.Y. (LAT 42 20 04 LONG 078 05 54)												
AUG., 1971 17...	1245	.19	4.7	42	7.9	4.0	1.6	151	0	22	2.6	.1
04221830 - CRAWFORD CREEK AT ORAMEL, N.Y. (LAT 42 21 37 LONG 078 08 58)												
AUG., 1971 17...	1205	.28	3.9	50	10	4.3	1.7	173	3	29	4.1	.1
04222530 - COLD CREEK AT HUME, N.Y. (LAT 42 28 23 LONG 078 08 12)												
AUG., 1971 09...	1315	4.7	4.1	46	8.8	5.0	2.1	154	0	26	6.5	.1
04222540 - RUSH CREEK AT FILLMORE, N.Y. (LAT 42 27 54 LONG 078 05 47)												
AUG., 1971 10...	1145	.24	4.4	56	12	5.8	2.8	181	1	46	7.3	.1
04222680 - TROUT BROOK AT PIKE CORNERS, N.Y. (LAT 42 34 17 LONG 078 10 19)												
AUG., 1971 09...	1440	5.2	4.3	55	8.8	3.8	1.3	160	0	24	12	.1
04223000 - GENESEE RIVER AT PORTAGEVILLE, N.Y. (LAT 42 34 10 LONG 078 02 45)												
MAR., 1971 16...	1430	14300	3.4	16	2.5	3.4	3.0	43	0	12	10	.0
04223400 - WOLF CREEK NEAR CASTILE, N.Y. (LAT 42 36 55 LONG 078 00 45)												
AUG., 1971 09...	1605	2.5	3.6	365	54	1600	82	80	5	380	2800	.3
04224550 - EWART CREEK AT SWAIN, N.Y. (LAT 42 28 40 LONG 077 51 18)												
JULY, 1971 23...	1230	<.01	3.0	29	7.1	16	2.9	72	0	53	11	.1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04221200 - BRIMMER BROOK NEAR WELLSVILLE, N.Y. (LAT 42 07 30 LONG 077 58 43)												
AUG., 1971 18...	.00	.05	.0	--	203	--	95	15	394	7.9	15.5	--
04221500 - GENESEE RIVER AT SCIO, N.Y. (LAT 42 09 50 LONG 077 58 50)												
MAR., 1971 16...	.05	.20	3.4	50	47	18	24	14	79	6.7	1.0	19
04221510 - VANDERMARK CREEK NEAR SCIO, N.Y. (LAT 42 10 02 LONG 077 57 31)												
AUG., 1971 18...	.00	.01	.0	--	119	--	87	23	227	7.4	15.0	--
04221520 - KNIGHT CREEK AT SCIO, N.Y. (LAT 42 10 15 LONG 077 59 17)												
AUG., 1971 17...	.00	.17	.0	--	346	--	120	28	639	8.0	23.0	--
04221560 - PHILLIPS CREEK NEAR BELMONT, N.Y. (LAT 42 14 23 LONG 078 00 54)												
AUG., 1971 17...	.00	.06	.0	--	153	--	120	4	270	8.0	23.0	--
04221650 - BLACK CREEK AT BENNETTS, N.Y. (LAT 42 19 19 LONG 077 56 32)												
AUG., 1971 17...	.03	.08	.4	--	97	--	81	5	177	7.7	26.5	--
04221710 - BAKER CREEK NEAR ANGELICA, N.Y. (LAT 42 18 31 LONG 078 02 38)												
AUG., 1971 17...	.00	.03	.0	--	169	--	140	8	294	8.4	26.0	--
04221760 - WHITE CREEK NEAR BELFAST, N.Y. (LAT 42 18 53 LONG 078 06 28)												
AUG., 1971 17...	.00	.03	.0	--	179	--	150	34	302	8.3	24.5	--
04221810 - WIGWAM CREEK AT BELFAST, N.Y. (LAT 42 20 04 LONG 078 05 54)												
AUG., 1971 17...	.00	.03	.0	--	159	--	140	14	278	8.2	22.0	--
04221830 - CRAWFORD CREEK AT ORAMEL, N.Y. (LAT 42 21 37 LONG 078 08 58)												
AUG., 1971 17...	.00	.03	.0	--	191	--	170	19	324	8.4	19.0	--
04222530 - COLD CREEK AT HUME, N.Y. (LAT 42 28 23 LONG 078 08 12)												
AUG., 1971 09...	.00	.03	.4	--	175	--	150	25	305	7.4	27.0	--
04222540 - RUSH CREEK AT FILLMORE, N.Y. (LAT 42 27 54 LONG 078 05 47)												
AUG., 1971 10...	.00	.06	.4	--	225	--	190	39	381	8.3	27.0	--
04222680 - TROUT BROOK AT PIKE CORNERS, N.Y. (LAT 42 34 17 LONG 078 10 19)												
AUG., 1971 09...	.03	.61	9.7	--	198	--	170	42	340	8.1	22.0	--
04223000 - GENESEE RIVER AT PORTAGEVILLE, N.Y. (LAT 42 34 10 LONG 078 02 45)												
MAR., 1971 16...	.22	1.8	2.8	122	76	50	50	15	148	7.6	.0	35
04223400 - WOLF CREEK NEAR CASTILE, N.Y. (LAT 42 36 55 LONG 078 00 45)												
AUG., 1971 09...	.00	.05	3.5	--	5330	--	1100	1100	8620	8.6	24.0	--
04224550 - EWART CREEK AT SWAIN, N.Y. (LAT 42 28 40 LONG 077 51 18)												
JULY, 1971 23...	.00	.04	.4	--	158	--	100	43	274	7.8	21.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04224700 - SUGAR CREEK NEAR OSSIAN, N.Y. (LAT 42 30 52 LONG 077 48 12)												
JULY, 1971 23...	1100	.64	3.9	27	6.7	2.5	1.6	98	0	17	5.5	.1
04224800 - STONY BROOK AT SOUTH DANSVILLE, N.Y. (LAT 42 28 14 LONG 077 39 10)												
JULY, 1971 23...	0815	.01	4.2	32	7.7	3.7	1.7	122	0	21	2.5	.1
04225000 - CANASERAGA CREEK NEAR DANSVILLE, N.Y. (LAT 42 33 40 LONG 077 42 55)												
MAR., 1971 16...	1115	1630	4.4	22	3.5	3.2	1.9	61	0	19	6.5	.0
04225600 - BRADNER CREEK AT WOODSVILLE, N.Y. (LAT 42 34 49 LONG 077 44 20)												
JULY, 1971 23...	0945	1.7	2.6	57	10	5.9	2.2	160	2	29	12	.1
04227600 - BEARDS CREEK AT CUYLERVILLE, N.Y. (LAT 42 46 36 LONG 077 51 38)												
AUG., 1971 10...	1125	.09	4.2	85	22	60	3.9	263	0	57	110	.2
04227650 - JAYCOX CREEK NEAR GENESEO, N.Y. (LAT 42 50 06 LONG 077 48 44)												
AUG., 1971 10...	1035	.06	3.5	82	39	50	4.7	194	0	190	74	.2
04227900 - CHRISTIE CREEK NEAR CANAWAUGUS, N.Y. (LAT 42 54 40 LONG 077 47 19)												
AUG., 1971 10...	0815	.42	4.9	140	49	140	4.5	314	0	120	290	.3
04228520 - WHITE CREEK AT CANAWAUGUS, N.Y. (LAT 42 55 53 LONG 077 46 51)												
AUG., 1971 10...	0920	2.1	8.2	84	28	16	2.3	280	0	68	40	.1
04228550 - DUGAN CREEK AT MAXWELL, N.Y. (LAT 42 58 25 LONG 077 46 22)												
AUG., 1971 10...	1955	1.6	8.3	296	40	26	2.7	160	4	700	49	.5
04228855 - MILL CREEK AT HONEOYE PARK, N.Y. (LAT 42 47 09 LONG 077 29 57)												
JULY, 1971 22...	1515	1.6	4.0	49	15	6.1	1.7	174	4	32	7.0	.1
04229700 - SPRING BROOK AT MORAN CORNER, N.Y. (LAT 42 57 36 LONG 077 37 11)												
AUG., 1971 19...	1420	.49	6.1	114	31	18	2.2	297	0	140	42	.7
04230050 - HONEOYE CREEK TRIBUTARY NEAR RUSH, N.Y. (LAT 42 59 09 LONG 077 39 54)												
AUG., 1971 19...	1330	1.1	10	288	63	21	2.0	261	0	--	30	.8
04230310 - WARNER CREEK AT ROCK GLEN, N.Y. (LAT 42 41 04 LONG 078 06 05)												
AUG., 1971 10...	2025	.54	4.5	45	7.1	5.0	1.9	124	0	30	11	.1
04230360 - STONY CREEK AT WARSAW, N.Y. (LAT 42 44 00 LONG 078 08 16)												
AUG., 1971 09...	1850	.63	2.8	48	10	12	2.5	154	0	27	22	.1
04230410 - PEARL CREEK AT PEARL CREEK, N.Y. (LAT 42 50 55 LONG 078 02 36)												
AUG., 1971 10...	1320	.98	5.0	90	20	13	2.5	284	0	48	27	.1
04230490 - SPRING CREEK AT MUMFORD, N.Y. (LAT 42 59 14 LONG 077 51 44)												
AUG., 1971 10...	1900	30	4.6	194	22	20	3.0	242	0	320	36	.3

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
STREAMS TRIBUTARY TO LAKE UNTARIO--Continued												
04224700 - SUGAR CREEK NEAR OSSIAN, N.Y. (LAT 42 30 52 LONG 077 48 12)												
JULY, 1971 23...	.00	.03	.4	--	113	--	95	15	214	8.1	21.0	--
04224800 - STONY BROOK AT SOUTH DANSVILLE, N.Y. (LAT 42 28 14 LONG 077 39 10)												
JULY, 1971 23...	.00	.25	.0	--	133	--	110	12	235	8.2	21.0	--
04225000 - CANASERAGA CREEK NEAR DANSVILLE, N.Y. (LAT 42 33 40 LONG 077 42 55)												
MAR., 1971 16...	.12	.88	2.4	125	93	14	69	19	158	8.1	5.0	34
04225600 - BRADNER CREEK AT WOODSVILLE, N.Y. (LAT 42 34 49 LONG 077 44 20)												
JULY, 1971 23...	.03	.09	5.3	--	205	--	180	49	349	8.3	17.5	--
04227600 - BEARDS CREEK AT CUYLERVILLE, N.Y. (LAT 42 46 36 LONG 077 51 38)												
AUG., 1971 10...	.03	.12	.0	--	472	--	300	87	860	8.2	22.5	--
04227650 - JAYCOX CREEK NEAR GENESEO, N.Y. (LAT 42 50 06 LONG 077 48 44)												
AUG., 1971 10...	.00	.04	.0	--	539	--	370	210	878	8.2	25.5	--
04227900 - CHRISTIE CREEK NEAR CANAWAUGUS, N.Y. (LAT 42 54 40 LONG 077 47 19)												
AUG., 1971 10...	.53	.23	10	--	914	--	550	290	1550	8.1	21.0	--
04228520 - WHITE CREEK AT CANAWAUGUS, N.Y. (LAT 42 55 53 LONG 077 46 51)												
AUG., 1971 10...	.00	.01	15	--	399	--	330	95	673	8.2	22.0	--
04228550 - DUGAN CREEK AT MAXWELL, N.Y. (LAT 42 58 25 LONG 077 46 22)												
AUG., 1971 10...	.00	.03	.8	--	1210	--	900	770	1460	8.3	22.0	--
04228855 - MILL CREEK AT HONEOYE PARK, N.Y. (LAT 42 47 09 LONG 077 29 57)												
JULY, 1971 22...	.00	.00	.0	--	204	--	180	35	355	8.5	18.0	--
04229700 - SPRING BROOK AT MORAN CORNER, N.Y. (LAT 42 57 36 LONG 077 37 11)												
AUG., 1971 19...	.03	.10	.8	--	501	--	410	170	786	8.2	18.0	--
04230050 - HONEOYE CREEK TRIBUTARY NEAR RUSH, N.Y. (LAT 42 59 09 LONG 077 39 54)												
AUG., 1971 19...	.03	.13	.4	--	--	--	980	760	1550	8.1	18.0	--
04230310 - WARNER CREEK AT ROCK GLEN, N.Y. (LAT 42 41 04 LONG 078 06 05)												
AUG., 1971 10...	.03	.13	7.0	--	173	--	140	40	300	7.8	20.0	--
04230360 - STONY CREEK AT WARSAW, N.Y. (LAT 42 44 00 LONG 078 08 16)												
AUG., 1971 09...	.00	.05	2.6	--	203	--	160	35	358	8.1	24.5	--
04230410 - PEARL CREEK AT PEARL CREEK, N.Y. (LAT 42 50 55 LONG 078 02 36)												
AUG., 1971 10...	.03	.14	6.1	--	352	--	310	74	594	8.1	21.0	--
04230490 - SPRING CREEK AT MUMFORD, N.Y. (LAT 42 59 14 LONG 077 51 44)												
AUG., 1971 10...	.03	.09	3.9	--	723	--	580	380	1020	8.0	15.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04230500 - OATKA CREEK AT GARBUTT, N.Y. (LAT 43 00 36 LONG 077 47 30)												
MAR., 1971 17...	1235	2440	3.6	47	6.7	9.9	2.6	117	0	50	20	.1
04230650 - GENESEE R AT BALLANTYNE BRIDGE NR MORTIMER, N.Y. (LAT 43 05 31 LONG 077 40 52)												
OCT., 1970 01...	1400	663	2.5	64	12	29	2.5	148	0	79	50	.2
04230800 - SPRING CREEK AT PUMPKIN HILL, N.Y. (LAT 42 05 37 LONG 078 04 00)												
AUG., 1971 10...	1500	4.6	6.1	330	50	16	2.6	148	0	840	42	.7
04231050 - HOTEL CREEK NEAR CHURCHVILLE, N.Y. (LAT 43 05 08 LONG 077 51 44)												
AUG., 1971 09...	1620	1.2	4.7	380	55	12	3.7	244	0	860	51	.5
04231100 - MILL CREEK NEAR WEST CHILI, N.Y. (LAT 43 04 31 LONG 077 46 56)												
AUG., 1971 10...	1715	3.7	2.7	405	47	32	3.2	227	0	900	70	1.0
04231700 - GENESEE R AT INTERSTATE 490 AT ROCHESTER, N.Y. (LAT 43 09 05 LONG 077 36 34)												
OCT., 1970 01...	1630	1230	2.0	63	9.5	27	2.3	142	0	75	47	.2
† 04232006 - GENESEE R AT CHARLOTTE DOCKS AT ROCHESTER, N.Y. (LAT 43 13 26 LONG 077 36 59)												
OCT., 1970 16...	1630	E3070	4.2	60	9.7	26	3.3	144	0	66	42	.1
04232042 - IRONDEQUOIT CREEK AT BUSHNELL BASIN, N.Y. (LAT 43 04 09 LONG 077 29 22)												
AUG., 1971 19...	1545	15	8.7	190	42	22	2.4	271	0	360	42	.7
04232050 - ALLEN CREEK NEAR ROCHESTER, N.Y. (LAT 43 07 49 LONG 077 31 08)												
MAR., 1971 16...	1050	330	4.6	50	13	58	3.6	153	0	43	100	.2
04232060 - SALMON CREEK AT PULTNEYVILLE, N.Y. (LAT 43 16 43 LONG 077 11 05)												
JULY, 1971 23...	1010	1.3	2.0	70	18	66	12	218	0	58	110	.3
04232395 - GLEN CREEK AT WATKINS GLEN, N.Y. (LAT 42 22 34 LONG 076 52 09)												
JULY, 1971 22...	0945	1.2	2.0	38	9.6	8.7	2.0	127	6	29	15	.1
04232406 - HECTOR FALLS CREEK AT BURDETT, N.Y. (LAT 42 25 21 LONG 076 49 58)												
JULY, 1971 22...	0830	1.5	6.4	41	8.9	6.5	1.1	156	2	16	7.5	.1
04232415 - CHUB HOLLOW CREEK NEAR PORTER CORNER, N.Y. (LAT 42 33 21 LONG 077 00 22)												
JULY, 1971 22...	1045	1.1	11	58	12	17	2.8	188	0	39	17	.1
04232420 - SAWMILL CREEK AT HECTOR, N.Y. (LAT 42 29 53 LONG 076 52 17)												
JULY, 1971 23...	1000	.11	1.9	50	10	5.6	2.3	155	0	62	10	.1
04232448 - KEUKA INLET AT PLEASANT VALLEY, N.Y. (LAT 42 23 41 LONG 077 15 31)												
JULY, 1971 23...	1400	4.6	7.8	72	18	6.5	1.4	219	6	46	19	.1
04232460 - SUGAR CREEK AT GUYANOGA, N.Y. (LAT 42 37 23 LONG 077 09 30)												
JULY, 1971 22...	1200	1.9	5.6	64	15	7.1	1.8	229	0	31	12	.1

† Minor element analyses for this site on page 243.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04230500 - OATKA CREEK AT GARBUTT, N.Y. (LAT 43 00 36 LONG 077 47 30)												
MAR., 1971 17...	.15	.61	5.7	207	204	32	145	60	348	7.8	1.0	17
04230650 - GENESEE R AT BALLANTYNE BRIDGE NR MORTIMER, N.Y. (LAT 43 05 31 LONG 077 40 52)												
OCT., 1970 01...	.44	.13	1.4	333	314	57	209	88	558	8.0	15.0	5
04230800 - SPRING CREEK AT PUMPKIN HILL, N.Y. (LAT 42 05 37 LONG 078 04 00)												
AUG., 1971 10...	.03	.05	3.9	--	1360	--	1000	910	1650	8.2	25.0	--
04231050 - HOTEL CREEK NEAR CHURCHVILLE, N.Y. (LAT 43 05 08 LONG 077 51 44)												
AUG., 1971 09...	.03	.04	9.7	--	1500	--	1200	980	1740	7.7	22.5	--
04231100 - MILL CREEK NEAR WEST CHILI, N.Y. (LAT 43 04 31 LONG 077 46 56)												
AUG., 1971 10...	.03	.04	3.0	--	1580	--	1200	1000	1940	8.2	24.5	--
04231700 - GENESEE R AT INTERSTATE 490 AT ROCHESTER, N.Y. (LAT 43 09 05 LONG 077 36 34)												
OCT., 1970 01...	.18	.36	1.5	313	298	24	196	80	537	7.7	16.5	3
04232006 - GENESEE R AT CHARLOTTE DOCKS AT ROCHESTER, N.Y. (LAT 43 13 26 LONG 077 36 59)												
OCT., 1970 16...	.14	.19	3.8	301	286	14	190	72	512	8.0	10.0	6
04232042 - IRONDOQUOIT CREEK AT BUSHNELL BASIN, N.Y. (LAT 43 04 09 LONG 077 29 22)												
AUG., 1971 19...	.39	.30	4.8	--	807	--	650	430	1150	8.1	18.0	--
04232050 - ALLEN CREEK NEAR ROCHESTER, N.Y. (LAT 43 07 49 LONG 077 31 08)												
MAR., 1971 16...	.18	.36	5.6	392	354	71	178	53	661	7.7	2.0	22
04232060 - SALMON CREEK AT PULTNEYVILLE, N.Y. (LAT 43 16 43 LONG 077 11 05)												
JULY, 1971 23...	.03	1.2	1.9	--	465	--	250	70	813	7.8	21.0	--
04232395 - GLEN CREEK AT WATKINS GLEN, N.Y. (LAT 42 22 34 LONG 076 52 09)												
JULY, 1971 22...	.00	.05	.0	--	173	--	130	20	306	8.5	19.5	--
04232406 - HECTOR FALLS CREEK AT BURDETT, N.Y. (LAT 42 25 21 LONG 076 49 58)												
JULY, 1971 22...	.00	.06	.0	--	161	--	140	9	292	8.3	16.0	--
04232415 - CHUB HOLLOW CREEK NEAR PORTER CORNER, N.Y. (LAT 42 33 21 LONG 077 00 22)												
JULY, 1971 22...	.10	.06	5.7	--	250	--	190	40	418	7.9	21.0	--
04232420 - SAWMILL CREEK AT HECTOR, N.Y. (LAT 42 29 53 LONG 076 52 17)												
JULY, 1971 23...	.00	.04	.4	--	199	--	170	39	353	8.2	18.0	--
04232448 - KEUKA INLET AT PLEASANT VALLEY, N.Y. (LAT 42 23 41 LONG 077 15 31)												
JULY, 1971 23...	.03	.08	5.7	--	288	--	250	68	483	8.3	21.0	--
04232460 - SUGAR CREEK AT GUYANOGA, N.Y. (LAT 42 37 23 LONG 077 09 30)												
JULY, 1971 22...	.00	.00	.4	--	250	--	220	34	440	8.0	17.0	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04232493 - REEDER CREEK NEAR MACDOUGALL, N.Y. (LAT 42 47 23 LONG 076 54 36)												
AUG., 1971												
19...	1540	.03	3.7	98	20	80	4.9	242	8	78	140	.4
04232497 - WILSON CREEK NEAR GENEVA, N.Y. (LAT 42 48 43 LONG 076 58 38)												
JULY, 1971												
23...	1200	.10	4.1	93	27	8.7	3.6	304	0	66	29	.2
04233310 - SIXMILE CREEK ABOVE ITHACA, N.Y. (LAT 42 24 33 LONG 076 27 14)												
AUG., 1971												
19...	1400	4.3	4.3	43	8.0	3.7	1.9	156	0	21	8.0	.1
04233633 - FALL CREEK AT MCLEAN, N.Y. (LAT 42 33 04 LONG 076 17 33)												
AUG., 1971												
20...	0845	5.0	3.1	51	10	5.7	1.2	177	0	19	8.5	.1
04233676 - VIRGIL CREEK AT DRYDEN, N.Y. (LAT 42 29 18 LONG 076 18 08)												
AUG., 1971												
19...	1530	2.9	4.9	41	11	4.3	1.3	141	3	23	9.4	.1
04234028 - TAUGHANNOCK CREEK AT HALSEYVILLE, N.Y. (LAT 42 31 47 LONG 076 38 14)												
AUG., 1971												
19...	1425	.69	4.7	44	11	6.1	2.0	153	0	27	12	.1
04234032 - TRUMANSBURG CREEK AT TRUMANSBURG, N.Y. (LAT 42 32 31 LONG 076 38 52)												
JULY, 1971												
23...	1600	.54	7.4	58	12	86	10	207	0	64	96	.2
04234053 - GREAT GULLY BROOK NEAR UNION SPRINGS, N.Y. (LAT 42 48 28 LONG 076 42 09)												
JULY, 1971												
22...	1015	.73	2.8	66	21	4.5	2.4	233	0	52	11	.2
04234058 - YAWGER CREEK NEAR UNION SPRINGS, N.Y. (LAT 42 52 44 LONG 076 41 02)												
JULY, 1971												
22...	1125	.59	6.3	218	16	3.8	1.6	252	0	430	7.2	.6
0423406C - MONTEZUMA MARSH OUTLET AT SENECA SPILLWAY, NY (LAT 42 59 02 LONG 076 44 07)												
AUG., 1971												
25...	1400	--	--	52	--	--	--	110	8	--	--	--
SEP.												
07...	1500	--	.0	61	7.6	46	2.8	139	13	52	75	.5
21...	1530	--	.6	--	--	--	--	136	16	100	60	.4
04234250 - GANARGUA CREEK AT MACEDON, N.Y. (LAT 43 03 25 LONG 077 19 04)												
JULY, 1971												
23...	1300	12	4.0	93	24	18	3.6	217	17	138	29	.2
04234300 - FAIRVILLE CREEK AT FAIRVILLE STATION, N.Y. (LAT 43 05 59 LONG 077 03 49)												
JULY, 1971												
23...	0900	.78	8.8	114	30	15	2.9	332	0	120	26	.3
04234400 - WEST RIVER NEAR MIDDLESEX, N.Y. (LAT 42 41 06 LONG 077 17 19)												
JULY, 1971												
22...	1315	.00	2.0	44	11	32	6.9	226	0	21	15	.4
04234450 - NAPLES CREEK AT NAPLES, N.Y. (LAT 42 37 06 LONG 077 23 45)												
JULY, 1971												
22...	1345	7.7	6.1	56	13	6.8	1.5	201	5	26	9.3	.1
04235020 - PADELFORD BROOK AT SHORTSVILLE, N.Y. (LAT 42 57 33 LONG 077 13 39)												
JULY, 1971												
23...	1445	.36	5.6	76	25	20	3.2	303	0	44	32	.2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04232493 - REEDER CREEK NEAR MACDOUGALL, N.Y. (LAT 42 47 23 LONG 076 54 36)												
AUG., 1971												
19...	.03	.01	6.6	--	559	--	330	120	946	8.5	24.0	--
04232497 - WILSON CREEK NEAR GENEVA, N.Y. (LAT 42 48 43 LONG 076 58 38)												
JULY, 1971												
23...	.03	.05	4.8	--	386	--	340	94	650	8.2	20.0	--
04233310 - SIXMILE CREEK ABOVE ITHACA, N.Y. (LAT 42 24 33 LONG 076 27 14)												
AUG., 1971												
19...	.07	.08	.8	--	168	--	140	12	296	8.1	29.0	--
04233633 - FALL CREEK AT MCLEAN, N.Y. (LAT 42 33 04 LONG 076 17 33)												
AUG., 1971												
20...	.03	.00	3.5	--	189	--	170	23	333	8.1	18.0	--
04233676 - VIRGIL CREEK AT DRYDEN, N.Y. (LAT 42 29 18 LONG 076 18 08)												
AUG., 1971												
19...	.00	.01	3.5	--	171	--	150	27	295	8.4	26.0	--
04234028 - TAUGHANNOCK CREEK AT HALSEYVILLE, N.Y. (LAT 42 31 47 LONG 076 38 14)												
AUG., 1971												
19...	.00	.05	.0	--	182	--	160	30	320	8.2	27.5	--
04234032 - TRUMANSBURG CREEK AT TRUMANSBURG, N.Y. (LAT 42 32 31 LONG 076 38 52)												
JULY, 1971												
23...	.23	1.4	32	--	470	--	190	24	812	8.1	25.0	--
04234053 - GREAT GULLY BROOK NEAR UNION SPRINGS, N.Y. (LAT 42 48 28 LONG 076 42 09)												
JULY, 1971												
22...	.00	.04	10	--	285	--	250	60	489	8.2	18.0	--
04234058 - YAWGER CREEK NEAR UNION SPRINGS, N.Y. (LAT 42 52 44 LONG 076 41 02)												
JULY, 1971												
22...	.00	.12	2.2	--	810	--	610	400	1160	7.8	13.5	--
0423406C - MONTEZUMA MARSH OUTLET AT SENECA SPILLWAY, NY (LAT 42 59 02 LONG 076 44 07)												
AUG., 1971												
25...	--	--	--	--	--	--	--	--	545	8.9	17.0	--
SEP.												
07...	--	--	--	--	--	--	--	--	557	9.1	24.0	--
21...	--	--	--	--	--	--	--	--	594	9.2	20.0	--
04234250 - GANARGUA CREEK AT MACEDON, N.Y. (LAT 43 03 25 LONG 077 19 04)												
JULY, 1971												
23...	.07	.05	1.3	--	427	--	330	130	667	8.8	23.0	--
04234300 - FAIRVILLE CREEK AT FAIRVILLE STATION, N.Y. (LAT 43 05 59 LONG 077 03 49)												
JULY, 1971												
23...	.00	.06	5.3	--	486	--	410	140	773	8.0	18.5	--
04234600 - WEST RIVER NEAR MIDDLESEX, N.Y. (LAT 42 41 06 LONG 077 17 19)												
JULY, 1971												
22...	.79	.17	.0	--	244	--	160	0	432	7.7	19.0	--
04234650 - NAPLES CREEK AT NAPLES, N.Y. (LAT 42 37 04 LONG 077 23 45)												
JULY, 1971												
22...	.03	.21	2.2	--	225	--	190	20	388	8.4	18.0	--
04235020 - PADELFORD BROOK AT SHORTSVILLE, N.Y. (LAT 42 57 33 LONG 077 13 39)												
JULY, 1971												
23...	.00	.09	.8	--	356	--	290	44	614	8.2	22.5	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04235030 - BLACK BROOK AT MANCHESTER, N.Y. (LAT 42 58 42 LONG 077 13 32)												
JULY, 1971												
23...	1410	3.1	12	208	33	31	3.2	428	0	230	70	.4
04235040 - ROCKY RUN AT CLIFTON SPRINGS, N.Y. (LAT 42 57 48 LONG 077 09 12)												
JULY, 1971												
23...	1540	.31	6.6	89	22	8.1	3.4	280	0	70	21	.2
04235150 - FLINT CREEK AT POTTER, N.Y. (LAT 42 42 09 LONG 077 12 25)												
MAR., 1971												
01...	1130	305	4.5	17	3.9	2.6	1.5	54	0	16	3.5	.1
04235253 - CANANDAIGUA OUTLET TRIB NO 2 AT OAKS CORNERS N.Y (LAT 42 55 59 LONG 076 59 52)												
JULY, 1971												
22...	1655	1.3	7.4	88	24	12	3.1	266	0	79	24	.2
04235260 - DUBLIN BROOK AT DUBLIN, N.Y. (LAT 42 58 56 LONG 076 54 52)												
JULY, 1971												
22...	1755	.49	1.8	218	37	40	4.0	226	7	530	57	.7
04235274 - WHITE BROOK AT MUNSONS CORNER, N.Y. (LAT 43 00 32 LONG 076 48 38)												
AUG., 1971												
26...	0915	--	--	220	--	--	--	230	0	--	--	--
SEP.												
08...	1430	1750	9.3	187	31	12	4.6	282	8	320	31	.4
22...	0800	--	10	--	--	--	--	318	0	200	25	.3
04235276 - BLACK BROOK AT TYRE, N.Y. (LAT 42 59 30 LONG 076 48 13)												
JULY, 1971												
22...	1450	1.3	4.1	284	41	37	5.4	300	0	620	64	.6
AUG.												
26...	1030	2.1	--	200	--	--	--	309	0	--	--	--
SEP.												
08...	1000	1.9	5.9	232	34	22	4.6	271	1	400	51	.4
21...	0845	15	5.3	--	--	--	--	187	0	220	38	.3
04235281 - CRANE BROOK AT MONTEZUMA, N.Y. (LAT 43 01 17 LONG 076 41 20)												
JULY, 1971												
22...	1230	4.0	2.2	120	28	310	4.8	224	0	210	490	1.1
04235293 - SPRING LAKE OUTLET AT SPRING LAKE, N.Y. (LAT 43 07 36 LONG 076 41 10)												
JULY, 1971												
22...	1350	1.7	9.9	54	14	8.4	1.2	193	0	16	20	.2
† 04236000 - SKANEATELES LAKE AT SKANEATELES, N.Y. (LAT 42 56 42 LONG 076 25 51)												
OCT., 1970												
13...	1230	--	.8	35	5.3	2.2	.8	118	0	20	4.1	.2
† 04240010 - ONONDAGA CR AT SPENCER ST AT SYRACUSE, N.Y. (LAT 43 03 27 LONG 076 09 46)												
OCT., 1970												
13...	1530	209	6.9	87	16	72	3.8	248	0	79	111	.4
† 04240170 - OTISCO LAKE AT MARIETTA, N.Y. (LAT 42 54 16 LONG 076 18 46)												
OCT., 1970												
13...	0930	--	.8	42	7.8	3.6	1.1	142	6	21	6.5	.1
04240180 - NINEMILE CREEK NEAR MARIETTA, N.Y. (LAT 42 55 15 LONG 076 19 47)												
MAR., 1971												
19...	1230	219	2.3	48	8.1	3.8	1.4	166	0	20	7.9	.1

† Minor element analyses for this site on page 243.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04235030 - BLACK BROOK AT MANCHESTER, N.Y. (LAT 42 58 42 LONG 077 13 32)												
JULY, 1971												
23...	.00	.05	.0	--	798	--	660	300	1180	8.1	21.0	--
04235040 - ROCKY RUN AT CLIFTON SPRINGS, N.Y. (LAT 42 57 48 LONG 077 09 12)												
JULY, 1971												
23...	.00	.05	2.6	--	361	--	310	83	604	8.2	21.5	--
04235150 - FLINT CREEK AT POTTER, N.Y. (LAT 42 42 09 LONG 077 12 25)												
MAR., 1971												
01...	.02	.09	2.1	97	77	21	58	14	140	7.3	.0	9
04235253 - CANANDAIGUA OUTLET TRIB NO 2 AT OAKS CORNERS N.Y (LAT 42 55 59 LONG 076 59 52)												
JULY, 1971												
22...	.00	.03	13	--	384	--	320	100	634	8.0	19.5	--
04235260 - DUBLIN BROOK AT DUBLIN, N.Y. (LAT 42 58 58 LONG 076 54 52)												
JULY, 1971												
22...	.00	.04	1.7	--	1010	--	700	500	1390	8.4	21.5	--
04235274 - WHITE BROOK AT MUNSONS CORNER, N.Y. (LAT 43 00 32 LONG 076 48 38)												
AUG., 1971												
26...	.10	.21	.9	--	--	--	--	--	1100	5.4	16.0	--
SEP.												
08...	--	--	--	--	743	--	595	350	1010	8.5	25.0	--
22...	.00	.14	1.3	--	--	--	--	--	890	8.1	12.0	--
04235276 - BLACK BROOK AT TYRE, N.Y. (LAT 42 59 30 LONG 076 48 13)												
JULY, 1971												
22...	.00	.05	.2	--	1200	--	878	630	1580	8.2	23.0	--
AUG.												
26...	.10	--	2.2	--	--	--	--	--	1200	8.0	16.0	--
SEP.												
08...	.00	.15	1.3	--	886	--	719	495	1240	8.3	25.0	--
21...	.20	.41	3.1	--	--	--	--	--	816	7.9	17.0	--
04235281 - CRANE BROOK AT MONTEZUMA, N.Y. (LAT 43 01 17 LONG 076 41 20)												
JULY, 1971												
22...	.07	.06	.4	--	1280	--	410	220	2170	8.0	22.0	--
04235293 - SPRING LAKE OUTLET AT SPRING LAKE, N.Y. (LAT 43 07 36 LONG 076 41 10)												
JULY, 1971												
22...	.00	.12	.8	--	220	--	190	34	380	7.7	22.0	--
04236000 - SKANEATELES LAKE AT SKANEATELES, N.Y. (LAT 42 56 42 LONG 076 25 51)												
OCT., 1970												
13...	.04	.06	1.8	139	128	16	110	13	234	8.1	18.0	0
04240010 - ONONDAGA CR AT SPENCER ST AT SYRACUSE, N.Y. (LAT 43 03 27 LONG 076 09 46)												
OCT., 1970												
13...	.10	.12	3.2	534	501	38	283	80	895	8.2	18.0	5
04240170 - OTISCO LAKE AT MARIETTA, N.Y. (LAT 42 56 16 LONG 076 18 46)												
OCT., 1970												
13...	.01	.06	.5	164	159	13	137	11	294	8.3	19.0	2
04240180 - NINEMILE CREEK NEAR MARIETTA, N.Y. (LAT 42 55 15 LONG 076 19 47)												
MAR., 1971												
19...	.03	1.1	2.1	180	177	25	153	17	320	8.1	2.0	6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
† 04242500 - EAST BRANCH FISH CREEK AT TABERG, N.Y. (LAT 43 18 06 LONG 075 37 09)												
OCT., 1970												
12...	1100	408	2.8	8.5	2.2	.9	.5	30	0	9.0	2.3	.1
04243530 - ONEIDA CREEK AT ONEIDA VALLEY, N.Y. (LAT 43 09 15 LONG 075 43 17)												
SEP., 1971												
20...	1230	--	4.4	150	30	23	4.6	244	0	260	35	.3
04243700 - CANASERAGA CREEK NEAR LAKEPORT, N.Y. (LAT 43 05 53 LONG 075 51 04)												
SEP., 1971												
20...	1300	--	6.8	190	37	25	5.6	256	0	360	47	.4
04243800 - COWASELON CREEK AT ONIONTOWN, N.Y. (LAT 43 07 02 LONG 075 49 51)												
SEP., 1971												
20...	1330	--	5.4	190	39	30	5.0	250	0	370	47	.4
04245500 - CHITTENANGO CREEK AT BRIDGEPORT, N.Y. (LAT 43 09 18 LONG 075 58 18)												
SEP., 1971												
20...	1400	--	5.2	150	27	17	3.0	250	0	230	31	.4
04246000 - ONEIDA LAKE (ONEIDA R) AT BREWERTON, N.Y. (LAT 43 14 25 LONG 076 08 28)												
SEP., 1971												
20...	1500	--	--	--	--	5.5	--	98	0	47	8.8	.1
† 04249000 - OSWEGO RIVER AT OSWEGO, N.Y. (LAT 43 27 26 LONG 076 31 06)												
OCT., 1970												
12...	1630	4660	1.5	88	10	82	3.0	124	0	75	192	.2
04258000 - BEAVER RIVER AT CROGHAN, N.Y. (LAT 43 53 50 LONG 075 24 16)												
MAY , 1971												
14...	1340	3.6	3.9	2.5	.4	.5	.3	3	0	7.0	.5	.1
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER												
04261000 - OSWEGATCHIE RIVER AT CRANBERRY LAKE, N.Y. (LAT 44 13 15 LONG 074 51 00)												
MAY , 1971												
06...	1310	735	5.6	3.0	.6	.9	.4	4	0	7.5	--	.1
04262500 - WEST BRANCH OSWEGATCHIE R NEAR HARRISVILLE, N.Y. (LAT 44 11 10 LONG 075 19 55)												
APR., 1971												
13...	1210	--	5.0	4.7	.8	.7	.3	9	0	8.2	.5	.2
04263000 - OSWEGATCHIE RIVER NEAR HEUVELTON, N.Y. (LAT 44 36 00 LONG 075 22 45)												
APR., 1971												
19...	1400	7050	4.5	11	2.8	1.4	.8	33	0	11	1.2	.1
04265000 - GRASS RIVER AT PYRITES, N.Y. (LAT 44 31 30 LONG 075 11 50)												
APR., 1971												
28...	0945	2234	5.2	5.0	1.2	.8	.4	9	0	10	.9	.2
04266500 - RAQUETTE RIVER AT PIERCEFIELD, N.Y. (LAT 44 14 05 LONG 074 34 20)												
MAY , 1971												
11...	1105	7400	5.0	4.0	.6	1.1	.5	5	0	7.7	1.3	.1
04267500 - RAQUETTE RIVER AT SOUTH COLTON, N.Y. (LAT 44 30 42 LONG 074 53 00)												
MAY , 1971												
11...	1115	9240	4.5	4.0	.6	.7	.3	6	0	7.2	1.1	.1
04268800 - WEST BRANCH ST REGIS RIVER NEAR PARISHVILLE, N.Y (LAT 44 35 52 LONG 074 44 19)												
APR., 1971												
26...	1220	908	5.4	4.0	.7	.7	.3	4	0	8.6	.7	.1

† Minor element analyses for this site on page 243.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
STREAMS TRIBUTARY TO LAKE ONTARIO--Continued												
04242500 - EAST BRANCH FISH CREEK AT TABERG, N.Y. (LAT 43 18 06 LONG 075 37 09)												
OCT., 1970 12...	.01	.24	.4	59	42	12	30	5	69	7.2	15.0	40
04243530 - ONEIDA CREEK AT ONEIDA VALLEY, N.Y. (LAT 43 09 15 LONG 075 43 17)												
SEP., 1971 20...	.23	.88	2.2	667	634	72	500	300	910	7.9	18.0	--
04243700 - CANASERAGA CREEK NEAR LAKEPORT, N.Y. (LAT 43 05 53 LONG 075 51 04)												
SEP., 1971 20...	.10	.32	3.0	880	803	80	630	420	1120	8.0	17.0	--
04243800 - COWASELON CREEK AT ONIONTOWN, N.Y. (LAT 43 07 02 LONG 075 49 51)												
SEP., 1971 20...	.20	.74	2.2	90	814	84	630	430	1150	7.9	17.0	--
04245500 - CHITTENANGO CREEK AT BRIDGEPORT, N.Y. (LAT 43 09 18 LONG 075 58 18)												
SEP., 1971 20...	.20	.21	4.4	627	593	61	490	280	856	8.0	19.0	--
04246000 - ONEIDA LAKE (ONEIDA R) AT BREWERTON, N.Y. (LAT 43 14 25 LONG 076 08 28)												
SEP., 1971 20...	.03	.41	.8	167	--	25	--	--	274	7.8	--	--
04249000 - OSWEGO RIVER AT OSWEGO, N.Y. (LAT 43 27 26 LONG 076 31 06)												
OCT., 1970 12...	.01	.14	3.0	570	516	53	261	159	974	7.8	17.0	5
04258000 - BEAVER RIVER AT CROGHAN, N.Y. (LAT 43 53 50 LONG 075 24 16)												
MAY , 1971 14...	.01	.08	3.2	36	20	20	7	5	31	5.1	6.0	25
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER												
04261000 - OSWEGATCHIE RIVER AT CRANBERRY LAKE, N.Y. (LAT 44 13 15 LONG 074 51 00)												
MAY , 1971 06...	.01	.14	2.4	38	--	10	9	7	34	6.0	4.0	20
04262500 - WEST BRANCH OSWEGATCHIE R NEAR HARRISVILLE, N.Y. (LAT 44 11 10 LONG 075 19 55)												
APR., 1971 13...	.01	.10	2.1	38	27	15	15	8	39	6.7	--	20
04263000 - OSWEGATCHIE RIVER NEAR HEUVELTON, N.Y. (LAT 44 36 00 LONG 075 22 45)												
APR., 1971 19...	.02	.05	1.9	57	51	12	38	12	90	7.0	6.5	20
04265000 - GRASS RIVER AT PYRITES, N.Y. (LAT 44 31 30 LONG 075 11 50)												
APR., 1971 28...	.01	.06	2.0	45	30	20	17	10	44	6.7	4.0	32
04266500 - RAQUETTE RIVER AT PIERCEFIELD, N.Y. (LAT 44 14 05 LONG 074 36 20)												
MAY , 1971 11...	.01	.06	1.7	44	24	28	12	8	36	6.2	7.5	20
04267500 - RAQUETTE RIVER AT SOUTH COLTON, N.Y. (LAT 44 30 42 LONG 074 53 00)												
MAY , 1971 11...	.01	.06	1.7	38	22	29	12	9	31	6.1	6.5	25
04268800 - WEST BRANCH ST REGIS RIVER NEAR PARISHVILLE, N.Y (LAT 44 35 52 LONG 074 44 19)												
APR., 1971 26...	.01	.06	2.2	24	24	15	12	9	31	5.9	2.0	40

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER--Continued												
04269000 - ST. REGIS RIVER AT BRASHER CENTER, N.Y. (LAT 44 51 49 LONG 074 46 45)												
APR., 1971												
15...	1230	3790	5.0	7.5	2.4	.9	.4	25	0	9.2	.6	.1
04270000 - SALMON RIVER AT CHASM FALLS, N.Y. (LAT 44 45 22 LONG 074 13 09)												
APR., 1971												
27...	0830	491	6.3	5.2	1.3	.8	.4	13	0	8.1	.7	.1
04270200 - LITTLE SALMON RIVER AT BOMBAY, N.Y. (LAT 44 56 24 LONG 074 33 24)												
APR., 1971												
15...	0945	711	4.1	11	3.4	1.2	.9	38	0	10	1.2	.0
04270510 - CHATEAUGAY RIVER BELOW CHATEAUGAY, N.Y. (LAT 44 57 49 LONG 074 07 53)												
APR., 1971												
27...	1200	854	5.3	10	2.2	1.7	.7	30	0	9.0	2.0	.1
04270800 - ENGLISH RIVER NEAR MOOERS FORKS, N.Y. (LAT 44 58 32 LONG 073 39 49)												
APR., 1971												
22...	1205	651	2.8	6.5	1.8	.7	.7	20	0	8.2	.8	.0
04273500 - SARANAC RIVER AT PLATTSBURGH, N.Y. (LAT 44 40 50 LONG 073 28 20)												
APR., 1971												
21...	1635	3230	5.8	8.8	1.9	1.7	.4	23	0	15	2.2	.1
04273700 - SALMON RIVER AT SOUTH PLATTSBURGH, N.Y. (LAT 44 38 24 LONG 073 29 43)												
APR., 1971												
29...	1125	480	5.5	9.0	2.3	1.2	.5	25	0	11	1.4	.1
04273900 - LAKE PLACID AT LAKE PLACID, N.Y. (LAT 44 17 42 LONG 073 59 26)												
APR., 1971												
21...	1030	--	.9	3.0	.3	.3	.2	6	0	3.6	.3	.0
04274000 - WEST BRANCH AUSABLE RIVER NEAR LAKE PLACID, N.Y. (LAT 44 18 40 LONG 073 55 00)												
APR., 1971												
21...	1110	618	6.6	5.0	.9	1.3	.1	10	0	8.6	1.3	.1
04275000 - EAST BRANCH AUSABLE R AT AU SABLE FORKS, N.Y. (LAT 44 26 20 LONG 073 40 55)												
APR., 1971												
21...	1350	1450	7.7	6.0	1.1	1.3	.1	12	0	9.1	.8	.1
04278000 - LAKE GEORGE AT ROGERS ROCK, N.Y. (LAT 43 48 10 LONG 073 27 25)												
APR., 1971												
27...	1445	108	4.3	8.5	1.1	.7	.1	17	0	11	.8	.1
04279000 - LAKE GEORGE OUTLET AT TICONDEROGA, N.Y. (LAT 43 50 38 LONG 073 25 57)												
APR., 1971												
27...	1250	940	1.2	12	2.2	1.8	.4	34	0	11	2.7	.1
04280740 - HALFWAY CREEK AT KANE FALLS, N.Y. (LAT 43 26 45 LONG 073 29 52)												
AUG., 1971												
25...	1110	31	3.7	32	9.2	5.8	1.0	121	0	16	12	.1
04280750 - WINCHELL CREEK NEAR FORT ANN, N.Y. (LAT 43 25 52 LONG 073 26 00)												
AUG., 1971												
25...	1300	.20	4.5	56	20	13	3.5	190	0	76	13	.1
04280770 - MUD BROOK AT WHITEHALL, N.Y. (LAT 43 32 55 LONG 073 22 45)												
AUG., 1971												
25...	1500	--	6.9	50	14	12	4.7	178	0	46	16	.1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (NO2) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	LOSS ON IGNI-TION (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)
STREAMS TRIBUTARY TO ST. LAWRENCE RIVER--Continued												
04269000 - ST. REGIS RIVER AT BRASHER CENTER, N.Y. (LAT 44 51 49 LONG 074 46 45)												
APR., 1971 15...	.01	.09	2.1	52	40	18	28	8	65	7.2	3.0	30
04270000 - SALMON RIVER AT CHASM FALLS, N.Y. (LAT 44 45 22 LONG 074 13 09)												
APR., 1971 27...	.01	.04	1.8	47	31	22	18	8	43	7.0	3.5	37
04270200 - LITTLE SALMON RIVER AT BOMBAY, N.Y. (LAT 44 56 24 LONG 074 33 24)												
APR., 1971 15...	.01	.11	1.9	60	52	23	41	10	90	7.3	2.0	25
04270510 - CHATEAUGAY RIVER BELOW CHATEAUGAY, N.Y. (LAT 44 57 49 LONG 074 07 53)												
APR., 1971 27...	.01	.03	1.5	63	47	19	34	9	79	7.4	3.0	20
04270800 - ENGLISH RIVER NEAR MOOERS FORKS, N.Y. (LAT 44 58 32 LONG 073 39 49)												
APR., 1971 22...	.00	.02	1.1	37	32	13	23	7	56	7.3	4.0	34
04273500 - SARANAC RIVER AT PLATTSBURGH, N.Y. (LAT 44 40 50 LONG 073 28 20)												
APR., 1971 21...	.18	.56	1.4	56	49	16	29	11	68	7.1	3.5	35
04273700 - SALMON RIVER AT SOUTH PLATTSBURGH, N.Y. (LAT 44 38 24 LONG 073 29 43)												
APR., 1971 29...	.01	.04	.4	62	43	28	31	11	71	7.3	5.0	32
04273900 - LAKE PLACID AT LAKE PLACID, N.Y. (LAT 44 17 42 LONG 073 59 26)												
APR., 1971 21...	.01	.17	1.2	7	12	0	8	4	21	6.1	1.5	2
04274000 - WEST BRANCH AUSABLE RIVER NEAR LAKE PLACID, N.Y. (LAT 44 18 40 LONG 073 55 00)												
APR., 1971 21...	.00	.00	3.0	36	31	7	16	8	46	6.7	4.5	13
04275000 - EAST BRANCH AUSABLE R AT AU SABLE FORKS, N.Y. (LAT 44 26 20 LONG 073 40 55)												
APR., 1971 21...	.01	.01	1.6	34	33	3	19	10	52	7.0	4.5	10
04278000 - LAKE GEORGE AT ROGERS ROCK, N.Y. (LAT 43 48 10 LONG 073 27 25)												
APR., 1971 27...	.01	.02	.4	48	35	18	25	12	58	7.2	5.0	7
04279000 - LAKE GEORGE OUTLET AT TICONDEROGA, N.Y. (LAT 43 50 38 LONG 073 25 57)												
APR., 1971 27...	.01	.02	.1	59	48	16	39	11	91	7.6	5.0	2
04280740 - HALFWAY CREEK AT KANE FALLS, N.Y. (LAT 43 26 45 LONG 073 29 52)												
AUG., 1971 25...	.03	.14	1.3	--	141	--	120	19	254	7.9	15.5	--
04280750 - WINCHELL CREEK NEAR FORT ANN, N.Y. (LAT 43 25 52 LONG 073 26 00)												
AUG., 1971 25...	.07	.28	1.3	--	188	--	220	64	455	7.9	15.5	--
04280770 - MUD BROOK AT WHITEHALL, N.Y. (LAT 43 32 55 LONG 073 22 45)												
AUG., 1971 25...	.07	.34	1.3	--	239	--	180	36	393	7.9	18.0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

Note: Additional data on pages 210-241 for sites reported below.

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
01343900 - HINKLEY RESERVOIR AT HINKLEY, N.Y. (LAT 43 18 45 LONG 075 06 25)												
OCT., 1970 14...	0	1	2	1	--	110	7	10	<.5	<.5	--	20
01347000 - MOHAWK RIVER NEAR LITTLE FALLS, N.Y. (LAT 43 00 52 LONG 074 46 48)												
OCT., 1970 15...	0	1	1	3	--	50	2	60	<.5	<.5	--	10
01350000 - SCHOHARIE CREEK AT PRATTSVILLE, N.Y. (LAT 42 19 15 LONG 074 26 10)												
OCT., 1970 23...	0	1	1	0	--	60	4	50	.6	<.5	--	10
01356400 - MOHAWK RIVER NEAR LATHAM, N.Y. (LAT 42 47 35 LONG 073 47 01)												
OCT., 1970 23...	10	1	0	1	--	50	2	0	.5	<.5	--	30
01359499 - WATERVLIET RESERVOIR NEAR GUILDERLAND, N.Y. (LAT 42 42 41 LONG 073 57 39)												
AUG., 1971 12...	--	--	--	--	20	--	--	--	--	--	--	--
01362500 - ESOPUS CREEK AT COLDBROOK, N.Y. (LAT 42 00 45 LONG 074 16 10)												
OCT., 1970 14...	0	5	0	3	--	40	3	10	<.5	<.5	--	20
01368000 - WALLKILL R NEAR UNIONVILLE, N.Y.(OWENS, N.J.) (LAT 41 15 35 LONG 074 32 55)												
MAY , 1971 19...	--	--	--	--	--	--	--	91	--	--	--	--
SEP. 21...	--	--	--	--	--	230	--	100	--	--	--	--
01413500 - EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, N.Y (LAT 42 08 40 LONG 074 39 15)												
OCT., 1970 28...	0	0	3	0	--	70	1	10	<.5	<.5	--	10
01435000 - NEVERSINK RIVER NEAR CLARYVILLE, N.Y. (LAT 41 53 25 LONG 074 35 30)												
OCT., 1970 21...	0	1	1	0	--	50	2	20	<.5	<.5	1.0	0
01503495 - SUSQUEHANNA R AT TOMPKINS ST BINGHAMTON, N.Y. (LAT 42 06 06 LONG 075 55 50)												
OCT., 1970 22...	0	1	0	0	--	50	4	50	<.5	<.5	--	0
01513500 - SUSQUEHANNA RIVER AT VESTAL, N.Y. (LAT 42 05 30 LONG 076 03 25)												
OCT., 1970 22...	0	1	1	1	--	60	5	40	<.5	<.5	--	20
04215800 - BUFFALO RIVER AT MICHIGAN AVE AT BUFFALO, N.Y. (LAT 42 52 17 LONG 078 52 23)												
OCT., 1970 14...	20	3	0	2	--	220	4	80	.7	<.5	--	40
04219350 - NIAGARA RIVER AT NIAGARA FALLS, N.Y. (LAT 43 03 40 LONG 079 00 12)												
OCT., 1970 13...	0	2	0	6	--	10	1	0	<.5	<.5	--	10

MINOR ELEMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
04219640 - LAKE ONTARIO (NIAGARA R) AT YOUNGSTOWN, N.Y. (LAT 43 11 58 LONG 075 23 24)												
OCT., 1970 13...	0	2	0	5	--	30	3	0	.6	<.5	--	20
04232006 - GENESEE R AT CHARLOTTE DOCKS AT ROCHESTER, N.Y. (LAT 43 13 26 LONG 077 36 59)												
OCT., 1970 16...	0	3	0	6	--	30	1	40	<.5	<.5	--	20
04236000 - SKANEATELES LAKE AT SKANEATELES, N.Y. (LAT 42 56 42 LONG 076 25 51)												
OCT., 1970 13...	0	1	1	1	--	10	0	0	<.5	<.5	--	30
04240010 - ONONDAGA CR AT SPENCER ST AT SYRACUSE, N.Y. (LAT 43 03 27 LONG 076 09 46)												
OCT., 1970 13...	0	1	1	2	--	80	1	40	<.5	<.5	--	10
04240170 - OTISCO LAKE AT MARIETTA, N.Y. (LAT 42 56 16 LONG 076 18 46)												
OCT., 1970 13...	20	1	1	1	--	10	0	0	<.5	<.5	--	10
04242500 - EAST BRANCH FISH CREEK AT TABERG, N.Y. (LAT 43 18 06 LONG 075 37 09)												
OCT., 1970 12...	10	1	0	1	--	70	0	0	<.5	<.5	--	0
04249000 - OSWEGO RIVER AT OSWEGO, N.Y. (LAT 43 27 26 LONG 076 31 06)												
OCT., 1970 12...	10	1	1	1	--	30	0	10	<.5	<.5	--	0

LONG ISLAND

NASSAU COUNTY

WELL NUMBER	LOCAL NUMBER	DATE	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA (NH4) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
4039500734210.1	N 1086	06 17 71	14	1000	60	3.0	1.9	4.2	.8	.00	10	12
4047360733531.1	N 1176	06 16 71	8.3	420	50	2.5	1.1	4.6	1.0	.02	8	1.0
4040030734056.1	N 1428	05 18 71	13	320	660	21	3.4	110	10	.02	16	35
4049220732929.1	N 1990	05 19 71	7.3	30	0	1.5	.5	5.7	.3	.03	13	3.6
4047080733836.1	N 2400	05 20 71	8.3	400	0	3.5	1.4	4.9	.5	.00	8	4.5
4051150733725.1	N 3466	05 24 71	15	210	30	13	5.0	8.4	1.3	.02	24	20
4048040734113.1	N 3523	05 19 71	18	30	0	18	8.3	9.1	1.6	.02	45	17
4048330734146.1	N 3540	05 19 71	21	40	30	22	12	11	2.2	.00	65	32
4050400732835.1	N 4243	05 18 71	19	30	0	17	6.4	7.2	1.4	.06	52	17
4047550733724.1	N 4265	05 20 71	6.5	20	70	2.0	.5	3.2	.3	.04	6	3.5
4046520734401.1	N 4388	05 18 71	17	320	0	23	9.0	7.9	1.5	.00	64	25
4052210733007.1	N 4400	05 28 71	17	20	0	8.0	2.8	5.6	1.0	.01	34	5.2
4047220733948.1	N 4623	05 21 71	12	300	0	8.0	4.3	5.5	.8	.00	33	6.2
4046470734235.1	N 5099	05 18 71	16	10	0	10	5.0	5.0	1.1	.01	43	7.0
4053250733514.1	N 5152	05 27 71	17	10	0	9.0	3.4	7.0	1.0	.02	31	5.7
4052330733723.1	N 5261	05 24 71	13	50	20	13	5.2	9.3	1.5	.02	24	19
4039470734316.1	N 5313	07 15 71	14	750	80	4.0	2.5	4.0	.8	.03	12	13
4047310734006.1	N 5528	05 19 71	20	30	30	13	7.0	6.0	1.2	--	62	8.3
4051290733615.1	N 5762	05 24 71	10	70	40	5.0	1.4	4.1	.5	.01	18	3.5
4050140733736.1	N 5792	05 27 71	16	1300	40	9.0	3.1	6.6	.8	.05	30	13
4053120732947.1	N 5900	05 27 71	10	20	0	15	5.4	7.6	2.0	.04	24	28
4042270732946.1	N 6664	05 25 71	13	400	800	28	3.1	28	8.0	1.1	11	50
4038050733953.2	N 6928	10 08 70	6.2	40	0	23	.0	25	2.4	1.2	114	8.0
4052320733235.1	N 7350	05 25 71	12	50	0	5.0	2.2	5.3	.6	--	18	6.9
4046400733814.1	N 7581	06 16 71	13	640	50	20	6.5	10	3.1	.03	20	30
4045310734154.1	N 7593	05 18 71	11	20	0	4.0	1.4	4.8	.5	.2	13	2.2
4051480733358.1	N 7620	05 13 71	10	30	0	5.0	1.1	3.6	.6	.04	19	2.2
4046110734010.1	N 7651	05 18 71	14	20	0	6.0	3.4	5.7	.8	.00	21	7.0
4048280733328.1	N 7858	06 16 71	8.7	210	0	3.5	.9	4.0	1.0	.04	13	2.0
4047390733921.1	N 8010	05 20 71	11	30	0	6.0	3.1	5.4	.7	.00	16	5.8
4040030734056.5	N 8149	05 18 71	9.4	1600	740	42	8.7	55	17	1.9	36	53
4040030734056.3	N 8150	05 18 71	3.7	2200	1300	16	5.3	49	26	3.8	62	54
4039000733132.1	N 8162	06 09 71	7.1	840	40	1.4	.5	2.6	.5	.03	6	2.5
4053410733752.1	N 8350	05 24 71	10	60	0	4.0	1.2	4.0	.5	.00	17	3.7
4042030733547.5	N 8395	05 19 71	6.9	750	0	37	6.9	52	4.2	.03	30	52

QUEENS COUNTY

WELL NUMBER	LOCAL NUMBER	DATE	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA (NH4) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
4045410734526.1	Q 471	10 20 70	12	0	--	4.8	1.4	3.4	.5	.09	18	2.5
4040010734830.1	Q 1151	10 01 70	15	17800	20	39	13	13	1.9	.1	32	62
4039580734458.1	Q 1187	10 09 70	5.9	12	--	11	5.2	9.7	1.3	.00	20	44
4044360735218.1	Q 1241	11 11 70	15	7400	120	15	5.0	13	1.8	.08	83	8.0
4039570734950.1	Q 2324	10 14 70	28	10	0	11	79	150	23	--	326	45
4045030735020.1	Q 2420	12 03 70	14	--	190	15	5.9	14	1.6	.2	88	52
4040250734638.1	Q 2422	11 18 70	10	5	--	4.0	1.7	5.9	1.0	.00	18	11
4040030734622.1	Q 2993	10 01 70	15	3	--	10	4.6	26	2.7	1.6	34	55
4039400734436.1	Q 2994	10 09 70	14	3100	--	2.5	1.4	3.3	.6	.01	12	6.5
4039400734435.1	Q 2995	10 09 70	15	1900	140	3.5	1.4	3.3	.5	.07	12	6.7

SUFFOLK COUNTY

WELL NUMBER	LOCAL NUMBER	DATE	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MAN-GANESE (MN) (UG/L)	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	AMMONIA (NH4) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
4050450731615.1	S 9771	06 21 71	--	--	--	--	--	--	--	.04	--	--
4100480722910.1	S 11699	05 19 71	8.5	--	--	35	4.3	30	8.0	.2	10	72
4051170724855.1	S 23381	05 20 71	11	--	--	34	7.9	6.4	1.0	.1	12	68
4108360721801.1	S 27094	05 19 71	12	--	--	17	6.5	23	1.8	.2	17	21
4052210730212.1	S 40331	09 17 71	11	--	--	5.0	1.3	4.9	.5	.00	18	2.0
4052220730213.1	S 41050	09 17 71	9.1	--	--	6.9	3.7	12	1.0	.00	12	3.6
4046100730537.1	S 42564	09 15 71	6.8	--	--	3.4	2.1	4.8	1.4	.00	8	11

52

LONG ISLAND

NASSAU COUNTY

CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITROGEN, ORGANIC AS N	NITRITE (NO2) (MG/L)	NITRATE (NO3) (MG/L)	PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH	COLOR	METHYLENE BLUE ACTIVE SUBSTANCE
4.7	.0	.1	--	.0	.03	51	15	7	61	6.1	--	.03
7.0	.0	.09	.01	9.1	.03	40	11	4	52	6.3	1	.07
190	.0	--	--	15	--	436	66	53	778	6.2	--	.03
3.9	.0	--	.02	4.6	--	25	6	0	41	6.9	1	.01
5.0	.0	--	--	12	--	46	14	8	62	6.2	--	.02
12	.1	--	.04	16	--	111	53	34	165	6.7	1	.03
11	.1	--	.02	27	--	113	79	42	194	6.9	1	.04
14	.1	--	.01	16	--	152	105	51	250	7.0	1	.04
15	.1	--	.01	13	--	148	77	35	185	7.0	1	.04
3.5	.0	--	.02	3.6	--	20	7	2	30	6.1	1	.00
12	.1	--	.02	12	--	119	95	42	224	7.0	1	.03
5.4	.1	.01	.02	5.7	.08	69	32	4	91	7.3	1	.02
6.6	.1	--	--	11	--	75	38	11	108	7.0	--	.03
6.0	.1	--	.03	7.3	--	78	46	11	117	7.0	1	.02
8.4	.1	.02	.02	12	.06	89	37	11	112	7.1	1	.02
13	.1	--	.01	22	--	96	54	35	170	6.5	1	.04
5.3	.0	--	.00	.0	.34	52	20	10	70	6.9	--	.01
7.8	.1	--	.03	8.8	--	108	62	11	154	7.4	1	.03
4.8	.0	--	.02	3.5	--	36	19	4	50	6.7	1	.00
7.3	.0	.08	.03	3.6	.09	69	36	11	112	7.0	1	.00
11	.1	.07	.02	16	.02	111	60	40	174	7.0	1	.03
22	.1	--	--	88	--	318	83	74	372	5.7	--	.23
12	.1	.1	.01	.0	.06	137	58	0	262	8.2	--	.01
6.7	.1	--	.02	9.4	--	60	22	7	80	6.7	1	.02
17	.0	--	--	32	--	159	77	56	236	6.2	--	.12
6.0	.1	--	.01	10	--	56	16	6	63	6.5	1	.02
4.0	.1	.05	.01	1.6	.02	31	17	2	44	6.6	1	.02
6.3	.0	--	.01	10	--	63	29	12	92	6.8	1	.02
5.0	.0	--	--	9.0	--	47	12	2	54	6.5	--	.05
6.8	.0	--	.02	14	--	70	28	15	91	6.7	2	.04
120	.0	--	--	55	--	381	141	112	652	6.7	--	.10
55	.0	--	--	40	--	271	62	10	484	6.9	--	.10
3.6	.1	--	--	.0	--	22	5	1	28	5.7	--	.01
5.0	.1	--	.01	3.6	--	31	15	1	50	7.0	1	.02
100	.1	--	--	34	--	347	121	98	553	6.2	--	.10

QUEENS COUNTY

CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITROGEN, ORGANIC AS N	NITRITE (NO2) (MG/L)	NITRATE (NO3) (MG/L)	PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH	COLOR	METHYLENE BLUE ACTIVE SUBSTANCE
4.3	1.0	--	.01	5.1	.04	42	18	3	52	7.1	3	.04
36	.1	--	.03	40	.03	226	151	125	365	6.6	0	.90
10	.0	--	.01	.0	.05	109	49	33	173	7.0	--	.04
5.5	.4	.2	.02	2.5	1.00	97	58	0	175	8.0	2	.01
260	.1	.7	.01	.4	.04	1030	353	86	--	8.8	7	.20
21	.0	.00	.01	.0	--	120	62	0	201	8.1	10	.01
5.0	.0	--	.01	.1	.08	51	17	2	73	7.2	3	.02
17	.1	--	.02	.4	.44	155	44	16	245	6.8	4	.03
5.8	.0	.05	.01	.0	.05	47	12	2	54	6.9	8	.01
6.3	.1	.1	.01	.0	.12	58	14	4	54	6.9	7	.02

SUFFOLK COUNTY

CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITROGEN, ORGANIC AS N	NITRITE (NO2) (MG/L)	NITRATE (NO3) (MG/L)	PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH	COLOR	METHYLENE BLUE ACTIVE SUBSTANCE
--	--	1.0	.02	59	--	70	--	--	--	--	1	--
22	.0	--	.02	36	--	265	105	97	375	6.3	1	.18
18	.0	--	.02	37	--	210	118	108	311	6.4	1	.07
54	.1	--	.02	4.0	--	56	69	55	274	6.7	2	.02
5.1	.0	.03	.00	5.3	.03	48	18	3	63	7.0	--	.02
12	.0	.00	.00	31	.00	91	32	22	13	6.0	--	.09
5.4	.0	.2	--	--	.00	--	17	11	71	6.1	--	.02

CHEMICAL QUALITY OF PRECIPITATION

LONG ISLAND

AT MINEOLA, N.Y.

LOCATION.--Lat 40°44'17", long 73°38'17", Nassau County, at National Weather Service Station Mineola 1W on roof of U.S. Geological Survey office, at 1505 Kellum Place, in Mineola.

RECORDS AVAILABLE.--Chemical analyses; October 1965 to September 1971 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 5.0 inches in diameter which drains into a 4-liter glass receiving bottle. A glass wool filter is used to prevent large particles of debris from entering the receiving bottle. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 25 feet above ground level.

REMARKS.--Sulfate (SO_4), chloride (Cl), nitrate (NO_3), and ammonia nitrogen as NH_4 values below 5.0 mg/l are reported to the nearest 0.05 mg/l. Bicarbonate (HCO_3) values below 10 mg/l are reported to the nearest 0.5 mg/l. Phosphorous as PO_4 values are reported to the nearest 0.01 mg/l. Values for pH less than 5.3 are reported to the nearest 0.05 units. Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
70-10-01 TO 70-11-02	2.38	2.0	.38	1.4	.0	4.0	4.50	2.30	1.10	2.20	.450	30	5.20
70-11-02 TO 70-12-01	4.35	.7	.26	.9	.0	2.0	3.50	1.65	.50	2.60	.020	26	4.90
70-12-01 TO 71-01-04	2.05	3.5	.93	1.1	.0	2.0	6.60	1.00	.55	3.90	--	38	6.50
71-01-04 TO 71-02-01	2.54	3.3	.98	2.1	.0	6.0	8.10	3.50	.65	3.75	.210	49	6.30
71-02-01 TO 71-03-01	4.47	2.0	.44	1.4	.0	4.0	6.10	2.70	.35	2.40	.190	32	5.60
71-03-01 TO 71-04-01	4.27	1.9	.45	1.4	.2	.0	17	2.30	1.15	7.20	.260	79	4.50
71-04-01 TO 71-05-03	3.21	6.0	.26	.8	.0	11	18	.50	.65	4.20	.080	81	6.90
71-05-03 TO 71-06-02	3.18	3.0	.76	.5	.1	2.0	6.20	.85	.90	3.55	.110	182	5.30
71-06-02 TO 71-07-01	1.00	5.0	1.20	1.5	.4	.0	17	1.60	1.70	6.65	.580	79	4.40
71-07-01 TO 71-08-02	5.77	2.4	.38	.6	.1	.0	9.00	.95	.80	4.40	.250	56	4.40
71-08-02 TO 71-09-01	3.24	1.0	.41	1.5	.1	.0	3.80	2.30	.25	1.35	--	31	4.70
71-09-01 TO 71-10-01	6.00	.4	.20	.9	.1	.0	2.00	1.60	.20	1.35	.060	23	4.60

AT UPTON, N.Y.

LOCATION.--Lat 40°52'16", long 72°53'20", Suffolk County, at National Weather Service Station at Brookhaven National Laboratory weather tower about 2 miles east of main entrance, at Upton.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1971 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Sulfate (SO_4), chloride (Cl), and nitrate (NO_3), and ammonia nitrogen as NH_4 values below 5.0 mg/l are reported to the nearest 0.05 mg/l. Bicarbonate (HCO_3) values below 10 mg/l are reported to the nearest 0.5 mg/l. Phosphorous as PO_4 values are reported to the nearest 0.01 mg/l. Values for pH less than 5.3 are reported to the nearest 0.05 units. Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
70-09-30 TO 70-10-30	1.70	1.2	.29	1.6	.1	.0	3.65	2.60	.10	2.10	.020	43	4.20
70-10-30 TO 70-12-01	6.40	.5	.21	1.5	.0	.0	2.15	2.25	.00	1.10	.010	28	4.50
70-12-01 TO 71-01-04	3.50	.1	.20	1.2	.0	.0	2.85	1.45	.25	2.60	.040	40	4.20
71-01-04 TO 71-02-03	2.00	.4	.22	1.2	.0	.0	3.40	4.00	.30	2.10	.020	37	4.30
71-02-03 TO 71-03-01	6.30	.2	.11	.7	.0	.0	3.00	.75	.15	1.60	.000	28	4.30
71-03-01 TO 71-04-01	3.40	.6	.18	.8	.0	.0	3.40	1.10	.20	1.70	.000	29	4.50
71-04-01 TO 71-05-05	3.40	.8	.36	1.0	.2	.0	5.20	2.30	.30	2.80	.010	56	4.30
71-05-05 TO 71-06-01	3.30	1.0	.29	1.4	.0	.0	5.00	1.90	.05	2.00	.030	46	4.30
71-06-01 TO 71-07-07	2.70	1.0	.11	.3	.3	.0	4.30	1.00	.05	2.20	.000	54	4.20
71-07-07 TO 71-08-03	3.10	2.0	.00	.6	.3	.0	4.15	.60	.05	1.25	.180	37	4.20
71-08-03 TO 71-09-02	3.60	1.1	.32	2.2	.1	.0	3.20	3.70	.05	.45	.030	37	4.90
71-09-02 TO 71-09-30	1.80	.2	.21	.8	.0	.0	.60	.90	.10	.00	.000	11	5.00

HUDSON RIVER BASIN

AT ROCK HILL, N.Y.

LOCATION.--Lat 41°37'25", long 74°31'17", Sullivan County, on North Shore Road, just north of Wanaksink Lake, 0.9 mile east of Rock Hill, and 3.5 miles northwest of National Weather Service Station Rock Hill 3SW and 6.5 miles southeast of Monticello.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1971 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Sulfate (SO_4), chloride (Cl), and nitrate (NO_3), and ammonia nitrogen as NH_4 values below 5.0 mg/l are reported to the nearest 0.05 mg/l. Bicarbonate (HCO_3) values below 10 mg/l are reported to the nearest 0.5 mg/l. Phosphorous as PO_4 values are reported to the nearest 0.01 mg/l. Values for pH less than 5.3 are reported to the nearest 0.05 units. Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
70-10-01 TO 70-11-02	5.22	.3	.14	.2	.8	1.5	3.15	.90	.10	.00	.120	43	5.20
70-11-02 TO 70-12-02	5.59	2.1	.37	.8	2.0	4.0	5.50	1.80	.05	.20	1.800	22	5.80
70-12-02 TO 71-01-05	4.92	.6	.24	.1	.0	.0	4.85	.45	.15	2.05	.060	25	4.50
71-02-02 TO 71-03-02	5.77	.2	.07	.2	.0	.0	2.85	.30	.15	1.75	.000	30	4.40
71-03-02 TO 71-04-03	3.28	.4	.11	.2	.0	.0	2.90	.35	.10	2.10	.030	26	4.50
71-04-03 TO 71-05-03	1.33	1.5	.21	.1	.2	.0	5.00	--	.25	3.80	.090	34	4.50
71-05-03 TO 71-06-02	4.87	1.0	.13	.1	.2	.0	3.00	.35	.00	2.70	.110	28	4.30
71-06-02 TO 71-07-01	2.28	2.0	.45	.9	2.3	4.0	12	.00	.10	.05	.310	31	6.00
71-07-01 TO 71-08-06	6.41	.7	.08	.1	.1	.0	2.20	.30	.05	.75	.030	27	4.30
71-08-06 TO 71-09-06	4.15	.2	.10	.1	.1	.0	1.80	.30	.25	.00	.030	27	5.30
71-09-06 TO 71-10-03	4.76	.2	.00	.3	.0	.0	2.70	.70	.15	2.10	.000	40	4.30

NEAR ALBANY, N.Y.

LOCATION.--Lat 42°44'35", long 73°48'30", Albany County, at National Weather Service Station at Albany Municipal Airport, 0.5 mile north of new State Highway 155.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1971 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Sulfate (SO_4), chloride (Cl), and nitrate (NO_3), and ammonia nitrogen as NH_4 values below 5.0 mg/l are reported to the nearest 0.05 mg/l. Bicarbonate (HCO_3) values below 10 mg/l are reported to the nearest 0.5 mg/l. Phosphorous as PO_4 values are reported to the nearest 0.01 mg/l. Values for pH less than 5.3 are reported to the nearest 0.05 units. Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
70-10-01 TO 70-11-01	2.49	.5	.20	.2	.1	.0	5.60	.05	.50	3.25	.040	38	4.20
70-11-01 TO 70-12-01	1.48	3.0	.27	.4	.1	.0	5.20	.85	.45	3.25	.040	31	5.10
70-12-01 TO 71-01-01	4.33	1.5	.18	.4	.0	.0	4.50	2.00	.25	2.60	.040	26	4.80
71-01-01 TO 71-02-01	1.34	4.0	.31	2.2	.1	4.0	7.10	3.40	.30	4.40	.060	44	5.90
71-02-01 TO 71-03-01	4.10	2.0	.23	1.1	.0	.0	4.65	1.60	.15	2.80	.040	30	4.40
71-03-01 TO 71-04-01	3.11	3.3	.31	.4	.0	1.0	5.40	.90	.65	5.70	.190	32	5.60
71-04-01 TO 71-05-01	2.00	5.3	.35	.2	.0	5.8	6.20	.70	.40	5.30	.060	38	6.90
71-05-01 TO 71-06-01	3.48	3.0	.27	.1	.1	.0	4.00	.25	.25	2.10	.050	39	4.90
71-06-01 TO 71-07-06	3.36	3.0	.24	.2	.6	.0	7.70	.15	.35	3.55	.020	68	4.40
71-07-06 TO 71-07-31	3.34	2.5	.18	.2	1.0	.0	4.40	.25	.05	.00	.030	26	4.80
71-07-31 TO 71-09-01	7.04	.7	.06	.2	.0	.0	1.40	.10	.10	.55	.000	31	5.00
71-09-01 TO 71-09-30	2.40	1.9	.21	1.0	.1	.0	5.00	.30	.05	.20	.030	23	5.40

HUDSON RIVER BASIN

AT HINCKLEY, N.Y.

LOCATION.--Lat 43°18'35", long 75°06'35", Oneida County, at National Weather Service Station at Hinckley Dam on West Canada Creek on Cady Road in Hinckley.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1971 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Sulfate (SO_4), chloride (Cl), and nitrate (NO_3), and ammonia nitrogen as NH_4 values below 5.0 mg/l are reported to the nearest 0.05 mg/l. Bicarbonate (HCO_3) values below 10 mg/l are reported to the nearest 0.5 mg/l. Phosphorous as PO_4 values are reported to the nearest 0.01 mg/l. Values for pH less than 5.3 are reported to the nearest 0.05 units. Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
70-10-01 TO 70-11-01	3.84	1.0	.08	.1	.0	.0	3.40	.05	.05	2.00	.010	40	4.50
70-11-01 TO 70-12-01	3.34	1.0	.12	.2	.0	.0	2.85	.45	.10	2.00	.010	29	4.30
70-12-01 TO 71-01-01	4.89	.5	.10	.2	.1	.0	4.00	1.00	.95	4.20	.010	36	4.40
71-01-01 TO 71-02-01	2.90	.3	.09	.4	.1	.0	3.10	2.40	.70	3.20	.010	33	4.50
71-02-01 TO 71-02-25	6.11	1.7	.08	1.1	.1	.0	1.45	.70	.40	4.15	--	40	4.60
71-02-25 TO 71-04-01	5.77	.5	.08	.3	.0	.0	3.70	.40	.35	4.20	.060	42	4.30
71-04-01 TO 71-05-04	2.84	1.7	.24	.1	.0	.0	5.50	.40	.50	5.80	.030	58	4.30
71-05-04 TO 71-06-01	1.74	2.0	.35	.0	.0	.0	5.20	.70	.05	3.00	.050	42	4.30
71-06-01 TO 71-06-30	2.47	2.0	.19	.1	.4	.0	9.00	.00	.10	2.85	.030	68	4.10
71-06-30 TO 71-07-31	7.14	2.0	.16	.1	.2	.0	3.70	.20	.01	.10	.030	23	4.50
71-07-31 TO 71-09-01	4.50	.8	.10	.2	.0	.0	2.50	.10	.10	.00	.030	33	5.00
71-09-01 TO 71-09-30	6.38	.4	.11	.3	.0	.0	2.80	.40	.10	.20	.000	25	4.60

SUSQUEHANNA RIVER BASIN

NEAR ATHENS, PA.

LOCATION.--Lat 41°55'31", long 76°31'35", Bradford County, at National Weather Service Station Milan 1N, 300 feet west of U.S. Highways 220 and 309, 0.6 mile west of the mouth of the Chemung River, 2.0 miles south of Athens, and 5.1 miles south of the New York-Pennsylvania state line.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1971 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Sulfate (SO_4), chloride (Cl), and nitrate (NO_3), and ammonia nitrogen as NH_4 values below 5.0 mg/l are reported to the nearest 0.05 mg/l. Bicarbonate (HCO_3) values below 10 mg/l are reported to the nearest 0.5 mg/l. Phosphorous as PO_4 values are reported to the nearest 0.01 mg/l. Values for pH less than 5.3 are reported to the nearest 0.05 units. Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
70-09-30 TO 70-11-01	3.92	.4	.06	.2	.0	.0	3.50	.60	.05	1.50	.030	31	4.20
70-11-01 TO 70-11-30	2.89	.5	.06	.2	.0	.0	3.20	3.00	.70	2.40	.140	32	4.50
70-11-30 TO 70-12-31	2.09	1.5	.13	.5	.1	.0	6.00	1.40	1.70	4.10	.160	60	4.60
70-12-31 TO 71-01-31	.81	1.0	.14	.9	.0	.0	6.40	1.40	2.35	5.00	.130	62	4.40
71-01-31 TO 71-03-01	3.37	.4	.04	.2	.0	.0	3.50	.20	.85	2.70	.010	24	4.60
71-03-01 TO 71-04-01	1.47	1.1	.19	.3	.0	.0	5.60	.55	1.45	7.00	.220	55	4.20
71-04-01 TO 71-05-05	2.65	1.6	.23	.2	.0	.0	5.70	.20	.45	4.20	.020	44	4.40
71-05-31 TO 71-08-16	4.56	1.8	.10	.2	.0	.0	8.00	.25	.15	.00	.060	90	4.50
71-08-16 TO 71-09-11	2.61	.8	.28	.1	.2	.0	5.30	.10	.05	.00	.060	57	4.30
71-09-11 TO 71-10-01	2.19	.5	.13	.2	.1	.0	5.70	.50	.15	1.25	.060	56	4.10

ALLEGHENY RIVER BASIN

AT ALLEGANY STATE PARK, N.Y.

LOCATION.--Lat 42°06'00", long 78°45'00", Cattaraugus County, at National Weather Service Station in Allegany State Park, 100 feet west of Park Administration Building, 300 feet west of Park Highway 1 and 6.0 miles south of Salamanca.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1971 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Sulfate (SO_4), chloride (Cl), and nitrate (NO_3), and ammonia nitrogen as NH_4 values below 5.0 mg/l are reported to the nearest 0.05 mg/l. Bicarbonate (HCO_3) values below 10 mg/l are reported to the nearest 0.5 mg/l. Phosphorous as PO_4 values are reported to the nearest 0.01 mg/l. Values for pH less than 5.3 are reported to the nearest 0.05 units. Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
70-10-01 TO 70-11-01	5.38	1.0	.10	.1	.3	.0	3.85	.05	.05	.00	.040	24	4.50
70-11-01 TO 70-12-01	7.09	.6	.16	.5	.1	.0	4.90	1.30	.00	2.00	.040	38	4.50
70-12-01 TO 71-01-01	4.02	1.0	.11	.2	.0	.0	6.00	.30	.25	3.20	.060	56	4.10
71-01-01 TO 71-02-01	2.31	1.2	.16	.7	.1	.0	5.20	.00	.30	2.70	.060	36	4.50
71-02-01 TO 71-03-01	3.36	.6	.07	.2	.0	.0	5.40	.25	.10	.10	.070	31	4.40
71-03-01 TO 71-04-01	3.23	1.7	.30	.7	.2	2.0	5.90	.90	.15	.00	--	20	6.00
71-04-01 TO 71-04-31	2.26	4.5	.77	.2	.2	5.0	16	1.00	.70	.20	.200	30	6.20
71-04-31 TO 71-06-01	2.23	2.0	.32	.3	.2	.0	8.50	.65	.80	--	.060	63	4.20
71-06-01 TO 71-07-01	2.10	2.0	.30	.3	1.8	.0	11	1.80	1.40	5.30	.090	81	4.10
71-07-01 TO 71-08-01	2.13	3.6	.41	5.0	3.2	6.0	15	8.00	.30	.05	.640	62	6.00
71-08-01 TO 71-09-01	2.88	1.4	.51	2.0	.6	.0	9.00	2.50	.90	2.15	.120	58	4.50
71-09-01 TO 71-10-01	5.76	.4	.10	.9	.1	.0	3.30	.70	.30	.00	.060	22	4.70

LAKE ONTARIO BASIN

AT MAYS POINT, N.Y.

LOCATION.--Lat 42°59'55", long 76°45'45", Wayne County, at National Weather Service Station Mays Point Lock 25, at Erie (Barge) Canal and State Highway 89 and 6.2 miles south of Savannah.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1971 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Sulfate (SO_4), chloride (Cl), and nitrate (NO_3), and ammonia nitrogen as NH_4 values below 5.0 mg/l are reported to the nearest 0.05 mg/l. Bicarbonate (HCO_3) values below 10 mg/l are reported to the nearest 0.5 mg/l. Phosphorous as PO_4 values are reported to the nearest 0.01 mg/l. Values for pH less than 5.3 are reported to the nearest 0.05 units. Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOSPHORUS (PO4) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
70-10-01 TO 70-11-02	5.67	1.8	.15	.2	.0	.0	4.05	2.30	.05	1.60	.000	33	4.40
70-11-02 TO 70-11-30	3.03	1.0	.11	.3	.0	.0	2.90	.60	.05	1.70	.010	26	4.50
70-11-30 TO 71-01-01	3.50	1.0	.07	.2	.0	.0	3.20	2.65	.35	2.95	.010	38	4.30
71-01-01 TO 71-02-01	1.41	3.9	.45	3.2	1.4	5.0	7.20	4.00	1.05	7.10	.130	68	4.50
71-02-01 TO 71-03-01	3.91	2.7	.25	.9	.2	.0	5.10	1.80	.25	4.05	.010	30	5.40
71-03-01 TO 71-03-31	1.17	3.2	.36	.7	.0	2.0	5.60	.70	.05	5.60	.030	34	5.60
71-03-31 TO 71-04-31	.93	3.0	.51	.2	.0	.0	6.70	.45	.65	4.70	.020	36	4.20
71-04-31 TO 71-06-03	1.67	2.9	.49	.2	.1	.0	7.00	.40	.15	9.75	.060	53	4.30
71-06-03 TO 71-07-01	2.68	1.5	.23	.3	.3	.0	6.40	1.10	.10	2.95	.030	31	4.20
71-07-01 TO 71-08-02	6.61	1.1	.28	.7	.5	.0	5.20	.60	.00	.55	.030	30	4.40
71-08-02 TO 71-09-10	4.13	.8	.22	.3	.3	.0	3.90	.50	.15	.45	.000	28	4.40
71-09-10 TO 71-09-30	2.15	.8	.24	.8	.1	.0	3.70	1.00	.10	1.30	.030	34	4.30

CHEMICAL QUALITY OF PRECIPITATION

ST. LAWRENCE RIVER BASIN

NEAR CANTON, N.Y.

LOCATION.--Lat 44°34'40", long 75°06'40", St. Lawrence County, at National Weather Service Station, Canton 4SE, on the Canton State University Farm on State Highway 68, 2.5 miles southeast of U.S. Highway 11 and Canton, N.Y.

RECORDS AVAILABLE.--Chemical analyses: August 1965 to September 1971 (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 inches in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 feet above ground level and is protected by a windshield.

REMARKS.--Sulfate (SO_4), chloride (Cl), and nitrate (NO_3), and ammonia nitrogen as NH_4 values below 5.0 mg/l are reported to the nearest 0.05 mg/l. Bicarbonate (HCO_3) values below 10 mg/l are reported to the nearest 0.5 mg/l. Phosphorous as PO_4 values are reported to the nearest 0.01 mg/l. Values for pH less than 5.3 are reported to the nearest 0.05 units. Inches of precipitation is that for the National Weather Service Station for the reported period of sampling.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

PERIOD OF COLLECTION	INCHES OF PRECIPI-TATION	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	AMMONIA (NH4) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (PO4) (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
70-10-17 TO 70-11-18	2.80	1.0	.13	.1	.0	.0	2.65	.90	.25	1.00	.020	26	4.40
70-11-18 TO 70-12-28	5.41	1.0	.10	.4	.2	.0	4.20	.65	.85	3.65	.010	33	4.50
70-12-28 TO 71-01-25	.72	1.0	.21	.3	.0	.0	7.00	1.05	2.10	7.80	.020	60	4.20
71-02-26 TO 71-04-03	5.03	1.5	.18	.1	.0	.0	3.50	.40	.65	3.90	.040	31	4.70
71-04-03 TO 71-06-01	4.33	2.0	.36	.0	.0	.0	5.20	.30	.05	1.60	.060	44	4.30
71-06-01 TO 71-07-02	2.21	2.0	.65	.3	.2	.0	7.70	1.00	.10	.00	.060	31	4.60
71-07-02 TO 71-08-06	3.75	1.0	.25	.7	.3	.0	5.10	.25	.10	.00	.030	37	4.60
71-08-06 TO 71-09-07	2.93	.8	.29	.1	.4	1.0	2.90	.20	.50	.95	.060	16	5.90
71-09-07 TO 71-10-02	2.01	1.3	.39	.1	.2	.0	6.70	.40	.60	3.65	--	38	4.40

Table 4.--NEW YORK STATE WATER QUALITY SURVEILLANCE STATIONS FOR WHICH WATER SAMPLES WERE ANALYSED BY AGENCIES OTHER THAN THE U.S. GEOLOGICAL SURVEY, 1971 WATER YEAR

USGS - U.S. Geological Survey
OWDC - Office of Water Data Coordination
WQS - New York State Water Quality Surveillance
EPA - Environmental Protection Agency

Identification Number USGS OWDC	Identification Number WQS EPA	Station	Latitude Longitude
01338600 68085	12 0452	Mohawk River above Whitesboro	43°08'23" 75°18'12"
01336600 68068	12 0550	Mohawk River (Canal Section) at Rome	43°11'58" 75°23'24"
01342602 61406	12 0500	Mohawk River near Utica	43°05'26" 75°09'28"
01346000 68096	12 1411	West Canada Creek at Kast Bridge	43°04'25" 74°59'24"
01342755 68083	12 0450	Mohawk River at Herkimer	43°01'01" 74°59'48"
01348002 61403	12 1310	East Canada Creek near St. Johnsville	43°00'21" 74°44'30"
01358001 67597	13 0007	Hudson River at Troy	42°45'05" 73°41'10"
01496380 68109	06 P069	Canadarago Lake near Richfield Springs	42°49'16" 75°00'41"
01502632 68108	06 0045	Susquehanna River at Bainbridge	42°17'28" 75°28'36"
01505000 68106	06 1022	Chenango River at Sherburne	42°40'43" 75°30'39"
01505580 68107	06 1021	Chenango River near Oxford	42°28'21" 75°32'44"
01509030 68105	06 2041	Tioughnioga River at Blodgett Mills	42°34'05" 76°07'18"
01513500 61438	06 0006	Susquehanna River at Vestal	42°05'31" 76°03'21"
01513831	06 0020	Susquehanna River at Owego	42°06'01" 76°15'39"
01514937 61440	06 0015	Susquehanna River at Smithboro	42°01'41" 76°23'07"
01520500 61424	05 1120	Tioga Creek at Lindley	42°01'43" 77°07'55"
01524525 68110	05 2006	Canisteo River below Hornell	42°17'58" 77°39'03"
01529552 61386	05 1080	Cohocton River at Campbell	42°13'37" 77°11'56"
01529950 68111	05 0005	Chemung River at Corning	42°08'51" 77°03'42"
01530310 61415	05 0003	Chemung River at Fitch Bridge	42°04'57" 76°52'01"
01530330	05 0002	Chemung River at Elmira	42°04'52" 76°49'15"
01531000 61439	05 0001	Chemung River at Chemung	42°00'10" 76°38'06"
03010870	02 0003	Allegheny River at Vandalia	42°05'38" 78°34'27"
03010958 61411	02 1036	Tunungwant Creek at Tuna Creek, Pa.	41°59'47" 78°37'21"
03011020 68119	02 0002	Allegheny River at Salamanca	42°09'24" 78°42'57"
03014500 68095	02 3061	Chadakoin River at Falconer	42°06'44" 79°14'19"
03014600	02 1011	Conewango Creek at Frewsburg	42°04'11" 79°09'30"
03014670	02 1010	Conewango Creek near Frewsburg	42°01'23" 79°09'35"
04213450 68120	01 2002	Buttermilk Creek near Springville	42°28'50" 78°40'32"
04213500 61409	01 1070	Cattaraugus Creek at Gowanda	42°28'05" 78°56'30"
04215790 68121	01 1006	Buffalo River at Ohio Street at Buffalo	42°51'42" 78°52'04"
04216060 68122	01 0004	Niagara River at Bird Island at Buffalo	42°54'53" 78°54'12"
04216080 68125	01 C005	Black Rock Canal at Buffalo	42°54'5[illegible]" 78°54'10"
04216225	01 0007	Niagara River at Tonawanda Water Intake	42°57'02" 78°55'15"
04216230	01 0008	Niagara River at Tonawanda Water Treatment Plant	42°57'50" 78°55'30"
04218595 68124	01 C900	Erie (Barge) Canal near Pendleton	43°06'57" 78°44'13"
04218705 68113	04 C901	Erie (Barge) Canal at State Highway 383 at Rochester	43°07'23" 77°38'45"
04218760 68112	04 C902	Erie (Barge) Canal at West Brighton	43°06'38" 77°37'58"
04219355 68123	01 0002	Niagara River (Tonawanda Channel) at Niagara Falls	43°04'28" 79°00'19"
04219640 61408	01 0001	Lake Ontario (Niagara River) at Youngstown	43°18'10" 79°03'52"
04220284 61431	03 L002	Lake Ontario at MCWA Intake at Rochester	43°16'45" 77°37'01"
042202841 68217	03 L001	Lake Ontario at Rigney Bluff	
04220438 61414	04 0075	Genesee River above Wellsville	42°06'40" 77°56'30"
04227000 68114	04 1008	Canaseraga Creek at Shakers Crossing	42°44'12" 77°50'28"
04227510 61418	04 0065	Genesee River at Geneseo	42°46'37" 77°50'31"
04228500 68115	04 0006	Genesee River at Avon	42°55'04" 77°45'27"
04230055 61419	04 1050	Honeoye Creek at West Rush	42°58'40" 77°41'52"
04230650 61413	04 0020	Genesee River at Ballantyne Bridge near Mortimer	43°05'31" 77°40'52"
04231500 68116	04 0004	Genesee River at State Highway 47 at Rochester	43°07'28" 77°37'56"
04232000 68117	04 0003	Genesee River at Rochester	43°10'50" 77°37'40"
04232006 68118	04 0001	Genesee River at Charlotte Docks, at Rochester	43°13'26" 77°36'59"
04232158 61429	03 L840	Lake Ontario near Oswego	

Table 4.--NEW YORK STATE WATER QUALITY SURVEILLANCE STATIONS FOR WHICH WATER SAMPLES WERE ANALYSED BY AGENCIES OTHER THAN THE U.S. GEOLOGICAL SURVEY, 1971 WATER YEAR - continued

Identification Number USGS OWDC	Identification Number WQS EPA	Station	Latitude Longitude
0423249907 68103	07 P108	Seneca Lake at Salt Point	
0423249988 61430	07 P106	Seneca Lake at Geneva Water Plant near Geneva	42°48'52" 76°57'24"
04232651	07 1040	Seneca River at Waterloo	42°54'05" 76°51'46"
04232707	07 1060 354301	Seneca River (Cayuga and Seneca Canal) at Seneca Falls	42°54'18" 76°49'34"
04232723	07 P080	Seneca River (Van Cleef Lake) at Seneca Falls	42°54'54" 76°47'14"
04232730 61385	07 1090	Seneca River (Cayuga and Seneca Canal) near Seneca Falls	42°56'20" 76°45'42"
0423406011 68104	07 P113	Cayuga Lake at Myers	
0423406084 61433	07 P111	Cayuga Lake near Caroga	42°50'49" 76°43'43"
042340613 61448	07 1130	Seneca River (Cayuga and Seneca Canal) at Free Bridge Corners	42°57'46" 76°44'17"
0423454444 61383	07 P120	Canandaigua Lake near Canadaigua	
04235396 61382	07 P115	Owasco Lake near Auburn	42°53'56" 76°32"17"
04235730	07 1150	Seneca River near Weedsport	43°04'14" 76°33'25"
04237500 54102	07 1020	Seneca River at Baldwinsville	43°09'24" 76°19'58"
04240300 68096	07 4401	Ninemile Creek at Syracuse	43°04'50" 76°13'36"
04240500 68100	07 2400	Onondaga Lake Outlet at Long Branch	43°07'01" 76°14'44"
04240540 68101	07 1361	Seneca River at Belgium	43°10'15" 76°16'06"
04242730 68097	07 3405	Fish Creek at Fish Creek Landing	43°13'16" 75°42'06"
04243535 68098	07 3404	Oneida Creek at South Bay	43°09'51" 75°44'14"
04245500 68099	07 3403	Chittenango Creek at Bridgeport	43°09'18" 75°58'18"
04246000 68102	07 1231	Oneida Lake (Oneida River) at Brewerton	43°14'25" 76°08'28"
04247080 61446	07 0200	Oswego River at Hinmansville	43°14'54" 76°21'06"
04249000 61447	07 0180	Oswego River at Oswego	43°27'26" 76°31'06"
04254965 61445	08 0017	Black River at Greig	43°40'36" 75°21'39"

INDEX

Page
Abbreviations.................... 2-6
Aerial data collection parameters.................... 14-15
Aerial thermal infrared radiometry (imagery).................... 12-15
Arrangement of data and identification numbers.................... 7-8
Allegheny River basin, chemical analyses
    of precipitation.................... 249
  miscellaneous analyses of streams in.................... 224-225
  surface-water quality records.................... 151-152

Batten Kill at Middle Falls.................... 49-50
Beaver Kill at Cooks Falls.................... 117-118
Beaver River at Moshier Falls.................... 173
Beaver Swamp Brook basin, miscellaneous analyses of
    streams in.................... 210-211
Black Creek at Churchville.................... 160-161
Black River, at Black River.................... 174
  at Huntingtonville.................... 175
  at State Highway 3 at Watertown.................... 176-177
  at Watertown.................... 178-179
Blind Brook basin, miscellaneous analyses of streams in.... 210-211
Brant Lake Outlet at Brant Lake.................... 38
Bronx River basin, miscellaneous analyses of streams in.... 210-211
Buffalo Creek at Gardenville.................... 153-154

Canandaigua Outlet at Phelps.................... 164
Carmans River at Yaphank.................... 30
Cayadutta Creek at Fonda.................... 68-69
Chemical analyses, of ground water.................... 244-245
  of precipitation.................... 246-250
Chemung River at Wellsburg.................... 149-150
Collection and examination of data.................... 9-12
Conewango Creek at Waterboro.................... 151-152
Conewango Creek basin, surface-water quality records....... 151-152
Cooperation.................... 1-2
Correlative ground data.................... 15

Deer River at Brasher Iron Works.................... 191-192
Definition of terms and abbreviations.................... 2-6
Delaware River, above Lackawaxen River near Barryville..... 135-136
  at Barryville.................... 137
  at Lordville.................... 131
  at Port Jervis.................... 138-140
  at Skinners Falls.................... 134
  East Branch, at Fishs Eddy.................... 119-121
  Near Callicoon.................... 132-133
  West Branch, at Hale Eddy.................... 128-130
   at Stilesville.................... 122-123
Delaware River basin, miscellaneous analyses of streams in. 216-221
  surface-water quality records.................... 117-141

East Branch Delaware River at Fishs Eddy.................... 119-121
East Branch Sacandaga River at Griffin.................... 40-41
East Meadow Brook at Freeport.................... 33-34
Eighteenmile Creek at Lockport.................... 155
Esopus Creek at Shandaken.................... 88-91

Fishkill Creek, at Beacon.................... 104-106
  at Hopewell Junction.................... 102-103
Fivemile Creek near Kanona.................... 147-148
Friends Lake near Chestertown.................... 37

Genesee River, at Rochester.................... 162-163
  at Shongo.................... 158
  near Houghton.................... 159
Clowegee Creek, at West Milton.................... 53-54
  near West Milton.................... 51-52
Grass River, above Massena.................... 187
  below Massena Center.................... 188
Ground-water chemical analyses, Long Island.................... 244-245
  New York.................... 244-245
Ground-water quality data, arrangement.................... 8

Hackensack River at Orangeburg.................... 115-116
Hackensack River basin, surface-water quality records...... 115-116
Hoosic River, at North Petersburg.................... 61-62
  near North Pownal, Vt.................... 59-60
Housatonic River basin, surface-water quality records...... 28
Hudson River, at Beacon.................... 101
  at Bear Mountain.................... 108
  at Catskill.................... 86-87
  at Coeymans.................... 84-85
  at Corinth.................... 43
  at Glenmont.................... 82-83
  at Green Island.................... 80-81
  at Fort Edward.................... 47-48
  at Hudson Falls.................... 46
  at Mechanicville.................... 63
  at Piermont.................... 111-112
  at Spier Falls.................... 44-45
  at Stillwater.................... 57-58
  at Verplanck.................... 109-110

Page
Hudson River, at Waterford.................... 64-65
  at Yonkers.................... 113-114
  below Poughkeepsie.................... 95-96
  near Chelsea.................... 99-100
  near Poughkeepsie.................... 94
Hudson River basin, chemical analyses of precipitation..... 247-248
  miscellaneous analyses of streams in.................... 210-217
  surface-water quality records.................... 35-114
Hydrologic bench-mark station.................... 88-91
  definition of.................... 9

Imagery Schedule.................... 15
Independence River at Donnattsburg 172
Infrared theory.................... 13
Introduction.................... 1
International Hydrological Decade (IHD)
    River Station....................80,81,185,186
  definition of.................... 9

Johnson Creek at Kuckville.................... 156

Kayaderosseras Creek near West Milton.................... 55-56

Lake Champlain, (East Bay) near Whitehall.................... 196-197
  near Crown Point.................... 200-201
  near Ticonderoga.................... 198-199
  Richelieu River, at Rouses Point.................... 202
Lake Erie basin, miscellaneous analyses of streams in...... 224-225
  surface-water quality records.................... 153-154
Lake Ontario basin, chemical analyses of precipitation..... 249
  miscellaneous analyses of streams in.................... 226-239
  surface-water quality records.................... 155-179
Little Salmon River below Texas.................... 170
Long Island, analyses of samples collected at
    water-quality partial-record stations.................... 204-209
  chemical analyses of ground water.................... 244-245
  chemical analyses of precipitation.................... 246
  surface-water quality records streams on.................... 29-34
Loon Lake near Chestertown.................... 36

Mamaroneck River basin, miscellaneous analyses of
    streams in.................... 210-211
Massapequa Creek at Massapequa.................... 31-32
Mill Neck Creek at Mill Neck.................... 29
Minor element analyses of samples collected at
    miscellaneous sites.................... 242-243
Miscellaneous analyses of streams, Allegheny River basin... 224-225
  Beaver Swamp Brook basin.................... 210-211
  Blind Brook basin.................... 210-211
  Bronx River basin.................... 210-211
  Delaware River basin.................... 216-221
  Hudson River basin.................... 210-217
  Mamaroneck River basin.................... 210-211
  New York.................... 210-243
  Susquehanna River basin.................... 220-223
  St. Lawrence River basin.................... 238-241
  St. Lawrence River main stem.................... 226-227
  tributary to, Lake Erie.................... 224-225
   Lake Ontario.................... 226-239
   Niagara River.................... 226-227
   St. Lawrence River.................... 232-233
Mohawk River, at Crescent Dam.................... 78-79
  at Fonda.................... 70-71
  at lock 10, at Cranesville.................... 73-74
  at Schenectady.................... 75-76
  at Utica.................... 67
  at Vischer Ferry Dam.................... 77
  below Delta Dam, near Rome.................... 66
Moodna Creek near New Windsor.................... 107

Neversink River at Port Jervis.................... 141
North Atlantic slope basins, surface-water
    quality records.................... 28-150

Ohio River basin, surface-water quality records............ 151-152
Oswegatchie River, at Gouverneur.................... 182-183
  at Ogdensburg.................... 184
Other available data.................... 16
Oquaqa Creek, at Arctic.................... 124
  near North Sanford.................... 126-127
Oquaqa Creek Tributary at Arctic.................... 125
Owasco Outlet below Auburn.................... 165-166
Partial-record stations, water-quality.................... 204-209
Precipitation, chemical quality of, at Allegany
    State Park.................... 249
  at Hickley.................... 248
  at Mays Point.................... 249
  at Mineola.................... 246
  at Rock Hill.................... 247
  at Upton.................... 246
  in Allegheny River basin.................... 249

Page
Precipitation, chemical quality of,
  in Hudson River basin........ 247-248
  in Lake Ontario basin........ 249
  in Long Island........ 246
  in New York........ 246-250
  in St. Lawrence River basin........ 250
  in Susquehanna River basin........ 248
  near Albany........ 247
  near Athens, Pa........ 248
  near Canton........ 250
Precipitation quality data, arrangement........ 8

Raquette River, at Massena Springs........ 190
  at Raymondville........ 189
References, Selected........ 18-19
Richelieu River (Lake Champlain) at Rouses Point........ 202
Rondout Creek at Eddyville........ 93

Sacandaga River, at Hadley........ 42
  East Branch, at Griffin........ 40-41
St. Lawrence River, at Alexandria Bay........ 181
  at Cape Vincent........ 180
  at Cornwall, Ontario - near Massena, N.Y........ 186
  at Ogdensburg........ 185
  miscellaneous analyses of streams tributary to........ 238-241
St. Lawrence River basin, chemical analyses
    of precipitation........ 250
  miscellaneous analyses of streams in........ 238-241
  surface-water quality records........ 153-202
St. Lawrence River main stem, surface-water
    quality records........180-181,185-186
Salmon River below Pulaski........ 171
Saranac River above Plattsburgh........ 193
Schoharie Creek at Fort Hunter........ 72
Schroon Lake at Pottersville........ 35

Page
Schroon River at Riverbank........ 39
Selected references........ 18-19
Seneca River at Baldwinsville........ 169
Seneca River (Barge Canal) near Jordan........ 168
Skaneateles Creek at Elbridge........ 167
Special Networks........ 9
Streams on Long Island, surface-water quality records........ 29-34
Streams tributary, to St. Lawrence River,
    miscellaneous analyses of........ 238-241
  to Lake Erie........ 224-225
  to Lake Ontario........ 226-239
  to Niagara River........ 226-227
  surface-water quality records........182-184,187-202
  to Lake Erie........ 153-154
  to Lake Ontario........ 155-179
Surface-water quality data, arrangement........ 7
Susquehanna River, at CFJ Memorial Bridge at Johnson City.. 145
  at Johnson City........ 146
  at Unadilla........ 142-143
Susquehanna River basin, chemical analyses
    of precipitation........ 248
  miscellaneous analyses of streams in........ 220-223
  surface-water quality records........ 142-150

Tenmile River at Webatuck........ 28
Ticonderoga Creek at Ticonderoga........ 194-195
Tioughnioga River at Cortland........ 144

Wallkill River near Rosendale........ 92
Wappinger Creek near Wappingers Falls........ 97-98
Water-quality partial-records stations........ 204-209
Water-quality records........ 28-250
Water-supply papers........ 17
West Branch Delaware River, at Stilesville........ 122-123
  at Hale Eddy........ 128-130
West Creek at Hilton........ 137